

ARTEP 5-617-11-MTP

**Prime Power Platoon,
Engineer Company,
Engineer Prime Power
Battalion**

October 2003

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ARMY TRAINING AND
EVALUATION PROGRAM
No. 5-617-11-MTP

HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington, DC, 30 October 2003

**MISSION TRAINING PLAN
for the
Prime Power Platoon, Engineer Company,
Engineer Prime Power Battalion**

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PREFACE

This mission training plan (MTP) provides active component (AC) and reserve component (RC) training managers with a descriptive, mission-oriented training program to train the unit to perform its critical wartime operations. This MTP aligns with and is part of the United States (US) Army Training and Tactical Doctrine Program. While general defense plan missions and deployment assignments impact on the priorities, the operations described here are expected to be executed with a high level of proficiency. Each unit is expected to train, as a minimum, to the standards of the training and evaluation outlines (T&EOs) in this MTP. Standards for training may be raised, but they may not be lowered.

This MTP applies to the prime power platoon, engineer company, engineer prime power battalion table(s) of organization and equipment (TOE) 05617L000.

The proponent for this publication is HQ, TRADOC. Send comments and recommendations on Department of the Army (DA) Form 2028 directly to Commander, US Army Maneuver Support Center, ATTN: ATZT-DT-WF-E, Directorate of Training Development, 320 MANSCEN Loop, Suite 220, Fort Leonard Wood, MO 65473-8929.

Unless this publication states otherwise, masculine nouns and pronouns do not refer exclusively to men.

CHAPTER 1

Unit Training

1-1. General. This MTP provides the commander and leaders with guidance on how to train the key missions of the unit. The specific details of the unit training program will depend on the—

- Unit mission-essential task list (METL).
- Chain-of-command training directives and guidance.
- Unit training priorities.
- Availability of training resources and areas.

1-2. Supporting Material. This MTP describes a critical wartime mission-oriented training program that is part of the next higher echelon training program. This relationship is illustrated in Figure 1-1. The unit training program consists of the following publications:

- a. Army Training and Evaluation Program (ARTEP) 5-615-66-MTP for the engineer prime power battalion staff. This MTP indicates the battalion training program.
- b. ARTEP 5-616-34-MTP for the headquarters and headquarters company, engineer prime power battalion. This MTP indicates the relationship of the support company training program to the battalion training program.
- c. ARTEP 5-617-35-MTP for the engineer company, engineer prime power battalion. This MTP indicates the relationship of the support company training program to the battalion training program.
- d. ARTEP 5-617-11-MTP and ARTEP 5-617-10-MTP for the engineer platoons prime power. These MTPs indicate the relationship of the platoon training programs to the company training program.
- e. Soldier training publications (STPs) for the appropriate military occupational specialties (MOSs) and skill levels.

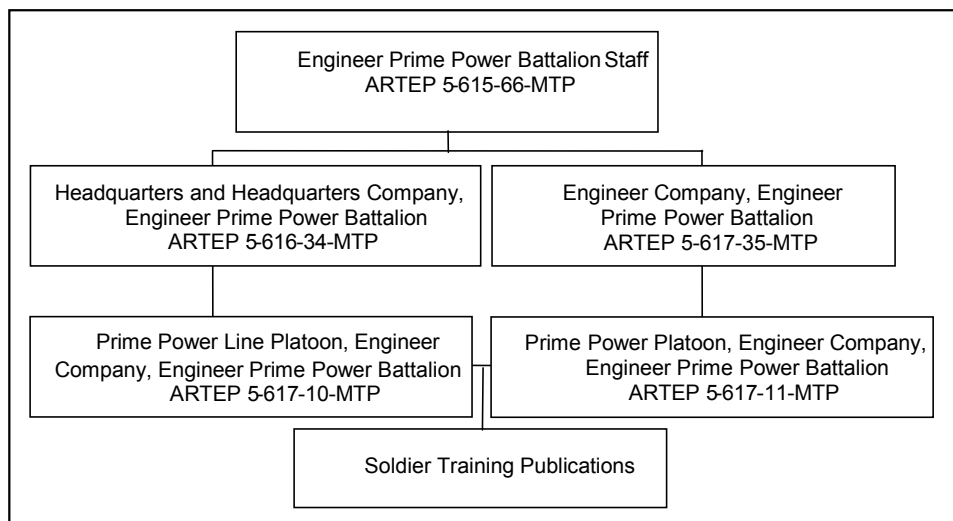


Figure 1-1. MTP Echelon Relationship

1-3. Contents. This MTP is organized into six chapters and three appendices.

- a. Chapter 1, Unit Training, provides the explanation and organization of an MTP. This chapter explains how to use an MTP in establishing an effective training program.
- b. Chapter 2, Training Matrixes, shows the relationship between the mission and the collective tasks.
- c. Chapter 3, Mission Outlines/Training Plans, presents a graphic portrayal of the relationship between missions and their subordinate tasks.
- d. Chapter 4, Training Exercise, consists of a sample training exercise. This exercise provides training information and a preconstructed sample scenario. It can serve as a part of an internal or external evaluation. This exercise may be modified to suit the training needs of the unit.
- e. Chapter 5, Training and Evaluation Outlines, contains the T&EOs for the unit. T&EOs are the foundation of the MTP and the collective training of the unit. Each task is a T&EO that identifies task steps, performance measures, individual and leader tasks, and opposing forces (OPFOR) countertasks. The unit must master designated collective tasks to perform its critical wartime operations. T&EOs can be trained separately, in a situational training exercise (STX), in a field training exercise (FTX), or in live-fire exercises. For collective live-fire standards, the trainer needs to refer to the applicable gunnery manual for the appropriate course of fire. Those standards and courses of fire need to be integrated into the training exercise. Each T&EO is part of a mission and, in various combinations, composes the training exercise in Chapter 4.

(1) Format. T&EOs are prepared for every collective task that supports critical wartime operation accomplishment. Each T&EO contains the following items:

- (a) Elements. This identifies the unit or unit element(s) that perform the task.
- (b) Task. This describes the action to be performed by the unit and provides the task number.
- (c) Reference. This identifies the publication used to develop the task and is in parenthesis following the task number. If more than one reference is used, the reference that contains the most information (primary reference) about the task is listed first and underlined. If there is only one reference, it is not underlined.
- (d) Iteration. This is used to identify how many times the task is performed and evaluated during training. The M identifies when the task is performed in mission-oriented protective posture (MOPP) 4.
- (e) Commander/leader assessment. This is used by the unit leadership to assess the proficiency of the unit in performing the task to standard. Assessments are subjective in nature. Therefore, use all available evaluation data and subunit-leader input to assess the overall capability of the organization to accomplish the task. Use the following ratings:

- **T - Trained.** The unit is trained and has demonstrated its proficiency in accomplishing the task to wartime standards.
- **P - Needs practice.** The unit needs to practice the task. Performance has demonstrated that the unit does not achieve the task to standard without some difficulty or has failed to perform some task steps to standard.
- **U - Untrained.** The unit cannot demonstrate an ability to achieve wartime proficiency.

(f) Conditions. This describes the situation or environment in which the unit is to perform the collective task.

(g) Task standards. This states the performance criteria that a unit must achieve to successfully execute the task. This overall standard should be the focus of training and should be understood by every soldier. The trainer or evaluator determines the unit training status by using performance observation measurements (where applicable) and his judgment. The unit must be evaluated in the context of the mission, enemy, terrain, troops, time available, and civilian considerations (METT-TC). The conditions should be as similar as possible for all evaluated elements. This will establish a common baseline for unit performance.

(h) Task steps and performance measures. This is a list of actions that the unit is to perform to complete the task. These actions are stated in terms of observable performance for evaluating training proficiency. The task steps are arranged sequentially along with any supporting individual tasks and their references. An asterisk (*) to the left of the step number indicates the leader tasks within each T&EO. If the unit fails to correctly perform one of the task steps to standard, it has failed to achieve the overall task standard. The task step may contain performance measures that must be accomplished to correctly perform the task step.

(i) GO/NO-GO column. This column is provided for annotating the performance of the task steps. Evaluate each performance measure for a task step and place an X in the appropriate column. A major portion of the performance measures must be marked a GO for the task step to be successfully performed.

(j) Task performance/evaluation summary block. This block provides the trainer with a means of recording the total number of task steps and performance measures evaluated and those evaluated as GO. It also provides the evaluator with a means to rate the unit demonstrated performance as a GO or NO-GO. It also provides the leader with a historical record for five training iterations.

(k) Supporting individual tasks. This is a listing of all supporting individual tasks required to correctly perform the task. The task number and task title for each individual task are listed.

(l) Supporting collective tasks. This is a listing of all supporting collective tasks required to correctly perform the task. The task number and task title for each collective task are listed.

(m) Opposing forces tasks. These standards specify overall OPFOR performance for each collective task. The standards ensure that the OPFOR soldiers accomplish meaningful training and force the training unit to perform its task to standard or lose to the OPFOR. The OPFOR standards specify what must be accomplished—not how it must be accomplished. The OPFOR must always attain its task standards, using tactics consistent with the type of enemy being portrayed.

(2) Usage. The T&EOs can be used to train or evaluate a single task. Several T&EOs can be used to train or evaluate a group of tasks such as an STX or FTX.

f. Chapter 6, External Evaluation, provides instructions for the planning, preparation, and execution of an external evaluation.

g. Appendix A, Sample Operation Order, contains a sample operation order (OPORD) to be used with the exercise in Chapter 4.

h. Appendix B, Threat Analysis, describes local, regional, and global threats and special situations that impact operations.

i. Appendix C, Metric Conversion Chart, contains an English-to-metric measurement conversion chart.

1-4. Missions and Tasks.

a. This MTP concerns specific missions found in the TOE and an implied mission that the unit must perform in order to accomplish the specified missions. The critical missions are the focus for the unit. The commander may supplement these missions with his own. The following is a listing of the missions for the unit:

- Provide power distribution support.
- Provide power generation support.
- Sustain unit operations.
- Defend the unit.
- Conduct unit survivability operations.

b. Each of these tasks may be trained individually or jointly. Training is based on the criteria described in the T&EOs. Several T&EOs can be trained as an STX. Various combinations of STXs can be used to develop an FTX for the unit to practice its entire mission responsibility. Several STXs can be developed into an external evaluation that is designed by the next higher echelon to evaluate the ability of the unit to perform multiple missions under stress in a realistic environment.

c. Squad tasks are trained in much the same way as described above. However, the squad leader must also train the drills provided in the drill book.

d. Leader tasks that support unit missions are trained through STP training, battle simulations, and execution of unit missions.

e. Individual tasks that support unit tasks are mastered by training to standards outlined in the appropriate STPs. The T&EOs in Chapter 5 show the individual tasks that support collective-task training.

1-5. Training Principles. This MTP is based on the training principles explained in Field Manual (FM) 7-0.

1-6. Training Strategy. The training program, developed and executed by the engineer battalion to train to standards in its critical wartime missions, will be a component of the Army Combined Arms Training Strategy (CATS). The purpose of CATS is to provide direction and guidance on how the total Army will train and identify the resources required to support that training. CATS provides the tools that enable the Army to focus and manage training in an integrated manner. Central to CATS is a series of proponent-generated unit and institutional strategies that describe the training events and resources required to facilitate training to standard. CATS will be embedded in the Standard Army Training System (SATS), version 4.1 and higher. The Web site for this information is <http://www.atsc.army.mil/atmd/strac>.

a. The unit training strategies central to CATS provide the commander with a descriptive menu for training. These strategies reflect that while there is an optimal way to train to standard, it is unlikely that all units in the Army will have the exact mix of resources required to execute an optimal training strategy.

b. The unit training strategy is a descriptive training strategy that provides a means for training the battalion to standard by listing required training events, critical training gates, training event frequencies, and training resources. The commander selects those tasks required to train his METL from this MTP. The training strategies to be provided in SATS 4.1 will provide the means whereby those tasks can be trained through a focused and integrated training plan.

c. The unit training strategy will be comprised of three separate training strategies. When integrated with the training tasks found in this MTP, they form a comprehensive and focused training

strategy that allows the unit to train to standard. The elements of the unit training strategy are discussed below.

(1) Maneuver- and collective-training strategy. The maneuver- and collective-training strategy is intended to provide a set of recommended training frequencies for key training events in a unit and depicts those resources that are required to support the training events.

(2) Gunnery strategy. The gunnery strategy is based on weapons systems found in the unit and is intended to provide an annual training plan and to depict resources required to support weapons training. Data for the gunnery strategy comes from the Standards in Training Commission (STRAC) manual or the appropriate FMs.

(3) Soldier strategy. The soldier strategy provides an annual plan for training and maintaining skills at the individual level and lists the resources required to train a soldier.

d. A vital element in the unit training strategy is the identification of critical training gates. Critical training gates are defined as training events that must be conducted to standard before moving on to a more difficult or resource-intensive training event or task. Training gates follow the crawl, walk, run training methodology. For instance, if the unit training strategy calls for conducting an FTX, and an STX has been identified as a critical training gate for the FTX, the training tasks in the STX must be trained to standard before conducting the FTX. Standards for all tasks must be clearly defined so that the trainer can assess the preparedness of the soldiers, or units, to move on to more complex training events. The provision for critical training gates is made recognizing that the unit METL and the commander's assessment of his unit training status will determine the selection and timing of the collective-training exercises in a specific unit training strategy.

e. When developing the unit training plan, the commander identifies from the MTP the training tasks required to train his METL.

1-7. Training Conduct. This MTP is designed to facilitate planning, preparing, and conducting unit training as explained in FMs 7-0 and 25-101. The commander performs the following:

a. Assigns the missions and supporting tasks for training based on his METL and guidance from the next higher headquarters (HQ). Trainers must plan and execute training to support this guidance.

b. Reviews the mission outline in Chapter 3 to determine whether the STXs and the FTXs provided will support, or can be modified to support, the command guidance. If they do not support the guidance or if they need to be modified, refer to the matrix in Chapter 2. This matrix provides a list of all critical collective tasks, drills, and individual tasks that must be mastered to perform the mission.

c. Prioritizes the tasks that need training. There is never time to train everything. Orient the training toward the greatest challenges and the most difficult sustainment skills.

d. Integrates training tasks into the training schedule, using the following procedures:

- (1) List the tasks in the priority and frequency that they need to be trained.
- (2) Determine the amount of time required and how to use multiechelon training for the best results.
- (3) Determine where the training can take place.
- (4) Determine who will be responsible for what. The leader of the element being trained must always be involved.
- (5) Organize needs into blocks of time and training vehicles.

- e. Approves the list of tasks to be trained and schedules them on the unit training schedule.
- f. Determines the equipment and supplies needed to conduct the training.
- g. Keeps subordinate leaders informed, and oversees their training. The standards must be rigidly enforced.

1-8. Force Protection.

a. **Safety.** Safety is a component of force protection. Commanders, leaders, and soldiers use risk assessment and risk management to tie force protection into the military around the mission. Risk management assigns responsibility, institutionalizes the commander review of operational safety, and leads to decision making at a level of command that is appropriate to the risk. The objective of safety is to help units protect combat power through accident prevention, which enables units to win quickly and decisively, with minimum losses. Safety is an integral part of all combat operations. Safety begins with readiness that determines the ability of the unit to perform its METL to standard. Readiness standards addressed during METL assessment are as follows:

- (1) Soldiers with the self-discipline to consistently perform tasks to standard.
- (2) Leaders who are ready, willing, and able to enforce standards.
- (3) Training that provides skills needed for performance to standard.
- (4) Standards and procedures for task preferences that are clear and practical.
- (5) Support for task preference, including equipment, personnel, maintenance, facilities, and services.

b. **Risk Management.** Risk management addresses the root causes (readiness shortcomings) of accidents. It helps commanders and leaders identify and predict the next accident. Risk management is a way to put more realism into training without paying the price in deaths, injuries, or damaged equipment. Risk management is a five-step, cyclic process that is easily integrated into the decision-making process outlined in FM 101-5.

Step 1. Identify Any Hazards. Identify the most probable hazards for the mission.

Step 2. Assess the Hazards. Analyze each hazard to determine the probability of it causing an accident and the probable effect of the accident. Identify control options to eliminate or reduce the hazard. The Army standard risk assessment matrix in Figure 1-2 is a tool to use for assessing hazards.

Step 3. Make Risk Decisions. Weigh the risk against the benefits of performing the operation. Accept no unnecessary risks, and make any remaining risk decisions at the proper level of command.

Step 4. Implement Controls. Integrate specific controls into operation plans (OPLANs), OPODs, standing operating procedures (SOPs), and rehearsals. Communicate controls to the individual soldier.

Step 5. Supervise. Determine the effectiveness of controls in reducing the probability and effect of identified hazards, to include a follow-up and an after-action review (AAR). Develop lessons learned.

			HAZARD PROBABILITY				
			FREQUENT	PROBABLE	OCCASIONAL	REMOTE	IMPROBABLE
			A	B	C	D	E
E F F E C T	CATASTROPHIC	I	EXTREMELY		HIGH		
	CRITICAL	II	HIGH				
	MARGINAL	III		MEDIUM		LOW	
	NEGLIGIBLE	IV					

Severity

Catastrophic	Death, permanent total disability, system loss, major property damage
Critical	Permanent partial disability, temporary total disability in excess of three months, major system damage, significant property damage
Marginal	Minor injury, lost workday accident, compensable injury or illness, minor system/property damage
Negligible	First aid or minor supportive medical treatment, minor system impairment

Probability

Frequent	Individual soldier/item All soldiers exposed or item inventory	Occurs often in career/equipment or both service life Continuously experienced
Probable	Individual soldier/item All soldiers exposed or item inventory	Occurs several times in career/equipment service life Occurs frequently
Occasional	Individual soldier/item All soldiers exposed or item inventory	Occurs sometime in career/equipment service life Occurs sporadically or several times in inventory service life
Remote	Individual soldier/item All soldiers exposed or item inventory	Possible to occur in career/equipment service life Remote chance of occurrence; expected to occur sometime in inventory service life
Improbable	Individual soldier/item All soldiers exposed or item inventory	Can assume will not occur in career/equipment service life Possible, but not probable; occurs only very rarely

Risk Levels

Extremely High	Loss of ability to accomplish mission
High	Significantly degrades mission capabilities in terms of required mission standards
Medium	Degrades mission capabilities in terms of required mission
Low	Little or no impact on mission accomplishment

Figure 1-2. Risk Assessment Matrix

c. Chain of Command. Safety demands total chain-of-command involvement in planning, preparing, executing, and evaluating training. Responsibilities of the chain of command include—

- (1) Commanders.
 - (a) Seek optimum, not adequate, performance.
 - (b) Specify the risk you will accept to accomplish the mission.
 - (c) Select risk reductions provided by the staff.
 - (d) Accept or reject residual risk, based on the benefit to be derived.

concepts. (e) Train and motivate leaders at all levels to effectively use risk management

(2) Staff.

training. (a) Assist the commander in assessing risks and developing risk reduction options for

measures. (b) Integrate risk controls in plans, orders, METL standards, and performance

(c) Eliminate unnecessary safety restrictions that diminish training effectiveness.

(d) Assess safety performance during training.

(e) Evaluate safety performance during AARs.

(3) Subordinate leaders.

(a) Apply effective risk management concepts and methods consistently to the operations they lead.

(b) Report risk issues beyond their control or authority to their superiors.

(4) Individual soldiers.

(a) Report unsafe conditions and acts, and correct the situation when possible.

(b) Establish a buddy system to keep a safety watch on one another.

(c) Take responsibility for personal safety.

(d) Work as a team member.

(e) Modify your own risk behavior.

d. Fratricide. Fratricide is the employment of weapons, with the intent to kill the enemy or destroy its equipment, that results in unforeseen and unintentional death, injury, or damage to friendly personnel or equipment. Fratricide prevention is a component of force protection and is closely related to safety. Fratricide is, by definition, an accident. Risk assessment and risk management are mechanisms used to control the incidence of fratricide.

(1) Causes. The primary causes of fratricide are—

(a) Direct-fire control plan failures. These failures result when units fail to develop defensive and, particularly, offensive fire control plans.

(b) Land navigation failures. These failures result when units stray out of sector, report incorrect locations, or become disoriented.

(c) Combat identification failures. These failures include gunners or pilots being unable to distinguish thermal and optical signatures near the maximum range of their sighting systems and units in proximity mistaking each other for the enemy under limited-visibility conditions.

(d) Inadequate control measures. These occur when units fail to disseminate the minimum maneuver and fire support control measures that are necessary to tie control measures to recognizable terrain or events.

(e) Reporting communication failures. Units at all levels face problems in generating timely, accurate, and complete reports as locations and tactical situations change.

(f) Weapons errors. Lapses in individual discipline lead to charge errors, accidental discharges, mistakes with explosives or hand grenades, and similar incidents.

(g) Battlefield hazards. Unexploded ordnance (UXO), unmarked or unrecorded minefields, scatterable mines (SCATMINES), and booby traps litter the battlefield. Failure to mark, record, remove, or anticipate these hazards increases the risk of friendly casualties.

(2) Results. Fratricide results in unacceptable losses and increases the risk of mission failure. Fratricide undermines the ability of the unit to survive and function. Units experiencing fratricide observe these consequences:

- (a) Loss of confidence in unit leadership.
- (b) Increase of self-doubt among leaders.
- (c) Hesitation to use supporting combat systems.
- (d) Oversupervision of units.
- (e) Hesitation to conduct night operations.
- (f) Loss of aggressiveness during fire and maneuver.
- (g) Loss of initiative.
- (h) Disrupted operations.
- (i) General degradation of cohesiveness, morale, and combat power.

1-9. Environmental Protection. Protection of natural resources has continued to become an ever-increasing concern to the Army. It is the responsibility of all unit leaders to decrease and, if possible, eliminate damage to the environment when conducting training. Environmental risk management parallels safety risk management and is based on the same philosophy. Environmental risk management consists of the following steps:

Step 1. Identify Any Hazards. Identify potential sources for environmental degradation during the analysis of METT-TC factors. This requires the identification of environmental hazards. An environmental hazard is a condition with the potential for polluting air, soil, or water and/or destroying cultural and historical artifacts.

Step 2. Assess the Hazards. Analyze the potential severity of environmental degradation using the environmental risk assessment matrix (Figure 1-3). Consider the severity of environmental degradation when determining the potential effect an operation will have on the environment. The risk impact value is defined as an indicator of the severity of environmental degradation. Quantify the risk to the environment resulting from the operation as extremely high, high, medium, or low, using the environmental risk assessment matrix.

Environmental Risk Assessment Work Sheet						
Environmental Area:	Rating:					
Unit Operations	Risk Impact					
Movement of heavy vehicles/systems	5	4	3	2	1	0
Movement of personnel and light vehicles/systems	5	4	3	2	1	0
Assembly area activities	5	4	3	2	1	0
Field maintenance of equipment	5	4	3	2	1	0
Garrison maintenance of equipment	5	4	3	2	1	0

Overall Environmental Risk Assessment Form						
Unit Operation Environmental Issues	Movement of Heavy Vehicles/ Systems	Movement of Personnel and Light Vehicles/ Systems	Assembly Area Activities	Field Maintenance of Equipment	Garrison Maintenance of Equipment	Risk Rating
Air pollution						
Archeological and historical sites						
Hazardous material/waste						
Noise pollution						
Threatened/endangered species						
Water pollution						
Wetland protection						
Overall rating						

Risk Categories			
Category	Range	Environmental Damage	Decision Maker
Low	0-58	Little or none	Appropriate level
Medium	59-117	Minor	Appropriate level
High	118-149	Significant	Division commander
Extremely high	150-175	Severe	MACOM commander

Figure 1-3. Environmental Risk Assessment Matrix

Step 3. Make Environmental Risk Decisions. Make decisions and develop measures to reduce high environmental risks.

Step 4. Brief the Chain of Command. Brief the chain of command (to include the installation environmental office, if applicable) on proposed plans and pertinent high-risk environmental matrixes. Risk decisions are made at a level of command that corresponds to the degree of risk.

Step 5. Implement Controls. Implement environmental-protection measures into plans, orders, SOPs, training performance standards, and rehearsals.

Step 6. Supervise. Supervise and enforce environmental-protection standards.

1-10. Evaluation. The T&EOs in Chapter 5 describe the standards that must be met for each task.

a. Evaluations can be either internal or external. Internal evaluations are conducted at all levels, and they must be inherent in all training. External evaluations are usually more formal and are normally conducted by a HQ that is two levels above the evaluated unit. See Chapter 6 for more information on external evaluations.

b. A critical weakness in training is the failure to evaluate each task every time it is executed. The ARTEP concept is based on simultaneous training and evaluation. Too often, leaders do not practice continuous evaluation. Soldiers or small units are trained to perform a task to standard, and then later, when they execute that task as part of a training exercise, they execute it poorly or incorrectly and are not corrected. For this program to work, trainers and leaders must continually evaluate training as it is being executed.

c. Leaders should emphasize direct, on-the-spot evaluations. Correcting poor performance during individual or small-group training is easy to do. In higher-level exercises, it is usually not feasible to do this with outside evaluators, but evaluations should not be totally eliminated. Plan AARs at frequent, logical intervals during the exercises (usually after the completion of a major subordinate task). This is a proven technique that allows the correction of performance shortcomings while they are still fresh in everyone's mind. Also, it gets everyone involved and prevents the reinforcement of bad habits.

d. FM 25-101 provides detailed instructions for conducting an AAR. It also provides detailed guidance on coaching and critiquing during training.

1-11. Feedback. Recommendations for improvement of this MTP are requested. Feedback will help to ensure that this MTP answers the training needs of units in the field. Please make your comments on DA Form 2028 or DA Form 7507 and send to the address reflected in the preface.

CHAPTER 2

Training Matrixes

2-1. General. The training matrix assists the commander in planning the training of his unit personnel. Figure 2-1 provides mission identification for the unit.

Mission Identification Table Mission Title
Provide power distribution support Provide power generation support Sustain unit operations Defend the unit Conduct unit survivability operations

Figure 2-1. Mission Identification Table

2-2. Mission-to-Collective Task Matrix. This matrix (Figure 2-2) identifies the mission and its supporting collective tasks. The tasks are listed under the appropriate battlefield operating system (BOS), indicated by an X in the matrix. The BOSs that are used in this matrix are defined in United States Army Training and Doctrine Command (TRADOC) Pamphlet (Pam) 11-9. A specific mission is trained by using the collective tasks in the vertical column for the mission. Based on the proficiency of the unit, training is focused on operational weaknesses.

Collective Tasks	Power Distribution	Power Generation	Sustain Operations	Unit Defense
Develop Intelligence				
19-3-3105.05-T01A Process Captured Documents and Equipment			X	X
71-2-0332.05-T01A Maintain Operations Security (OPSEC)			X	X
Deploy/Conduct Maneuver				
07-1-1923.05-T01A React to Indirect Fire				X
07-2-1301.05-T01A Conduct a Convoy			X	X
07-3-1112.05-T01A React to an Ambush			X	X
Protect the Force				
03-2-3008.05-T01A Conduct a Radiological, Chemical, or Biological Reconnaissance or Survey			X	X
03-3-C201.05-T01A Prepare for Operations Under Nuclear, Biological, and Chemical (NBC) Conditions				X
03-3-C202.05-T01A Prepare for a Chemical Attack				X
03-3-C203.05-T01A Respond to a Chemical Attack				X

Collective Tasks	Power Distribution	Power Generation	Sustain Operations	Unit Defense
03-3-C205.05-T01A Prepare for a Friendly Nuclear Strike				X
03-3-C206.05-T01A Prepare for a Nuclear Attack				X
03-3-C208.05-T01A Cross a Radiologically Contaminated Area				X
03-3-C209.05-T01A React to Smoke Operations				X
03-3-C222.05-T01A Respond to the Residual Effects of a Nuclear Attack				X
03-3-C223.05-T01A Respond to the Initial Effects of a Nuclear Attack				X
03-3-C224.05-T01A Conduct Operational Decontamination			X	X
03-3-C226.05-T01A Cross a Chemically Contaminated Area			X	X
05-2-0911 Defend a Convoy Against a Ground Attack			X	X
09-2-0337.05-T01A React to Unexploded Ordnance (UXO)			X	X
19-3-2204.05-T01A Employ Physical Security Measures			X	X
44-1-C220.05-T01A Use Passive Air Defense Measures			X	X
44-1-C221.05-T01A Take Active Combined Arms Air Defense Measures Against Hostile Aerial Platforms			X	X
71-2-0326.05-T01A Perform Risk Management Procedures			X	X
Perform CSS and Sustainment				
05-3-5700 Install Nonstandard Low-Voltage, Electrical-Power Distribution Equipment	X	X		
05-3-5701 Install Low-Voltage, Electrical-Power Distribution Equipment	X	X	X	
05-3-5702 Install Underground Electrical-Power Distribution Equipment	X	X		
05-3-5703 Perform Electrical Safety Systems Testing and Maintenance	X	X	X	
05-3-5704 Perform Nonorganic Equipment Power Distribution Maintenance Operations	X	X	X	

Collective Tasks		Power Distribution	Power Generation	Sustain Operations	Unit Defense
05-3-5705	Retrieve Electrical-Power Generation and Distribution Equipment	X	X	X	
05-3-5707	Perform Nonorganic Power Generation System Maintenance Operations	X	X	X	
05-3-5709	Perform a Power Plant Installation Survey	X	X		
05-3-5710	Perform a Distribution System Installation Survey	X	X	X	
05-3-5712	Perform a Power Plant Maintenance Survey	X	X		
05-3-5713	Perform a Power Distribution System Maintenance Survey	X	X	X	
05-3-5714	Perform an Electrical Load Survey	X	X	X	
05-3-5715	Perform Power Plant Design Technical Assistance	X	X		
05-3-5716	Perform Power Plant Installation Technical Assistance		X		
05-3-5717	Perform Power Plant Distribution System Design Technical Assistance	X	X		
05-3-5718	Perform Power Plant Distribution System Installation Technical Assistance	X	X		
05-3-5719	Perform Power Plant Generation System Maintenance Technical Assistance	X	X		
05-3-5720	Select a Temporary Power Plant Site	X	X		
05-3-5721	Design Temporary Nonstandard Power Distribution Systems	X	X	X	
05-3-5722	Prepare Power Systems Construction Estimates	X	X		
05-3-5723	Install Prime Power Generation Equipment	X	X		
05-3-5724	Install Expedient, Surface-Laid, Electrical-Power Distribution Equipment	X			
05-3-5725	Install Aerial Electrical Power Distribution Equipment	X			
05-3-5726	Assess for Upgrade of Existing Power Distribution Systems	X		X	

Collective Tasks		Power Distribution	Power Generation	Sustain Operations	Unit Defense
05-3-5728	Assess Power Generation Systems for Damage	X	X		
05-3-5729	Operate Power Generation and Distribution Equipment	X	X		
05-3-5730	Perform Electrical-Power Generation Equipment Organizational Maintenance Operations	X	X		
05-3-5731	Perform Electrical-Power, Distribution Equipment Organizational Maintenance Operations	X			
05-3-5733	Perform Power Plant and Distribution Equipment Shipment	X	X		
08-2-C316.05-T01A	Transport Casualties (for Units Without Medical Treatment Personnel)			X	
08-2-R303.05-T01A	Conduct Battlefield Stress Reduction and Stress Prevention Procedures			X	X
08-2-R315.05-T01A	Perform Field Sanitation Functions			X	X
19-3-3106.05-T01A	Handle Enemy Prisoners of War (EPWs)			X	X
43-2-0001.05-T01A	Conduct Unit Level Maintenance Operations			X	X
Exercise Command and Control					
05-2-7008	Prepare an Operation Order (OPORD) (Company/Platoon)			X	X
05-4-1379	Provide Liaison	X	X	X	X
12-3-0001.05-T01A	Maintain Platoon Strength			X	

Collective Tasks	Unit Survivability
Develop Intelligence	
19-3-3105.05-T01A Process Captured Documents and Equipment	X
71-2-0332.05-T01A Maintain Operations Security (OPSEC)	X
Deploy/Conduct Maneuver	
07-1-1923.05-T01A React to Indirect Fire	X
07-2-1301.05-T01A Conduct a Convoy	X
07-3-1112.05-T01A React to an Ambush	X
Protect the Force	
03-2-3008.05-T01A Conduct a Radiological, Chemical, or Biological Reconnaissance or Survey	X
03-3-C201.05-T01A Prepare for Operations Under Nuclear, Biological, and Chemical (NBC) Conditions	X
03-3-C202.05-T01A Prepare for a Chemical Attack	X
03-3-C203.05-T01A Respond to a Chemical Attack	X
03-3-C205.05-T01A Prepare for a Friendly Nuclear Strike	X
03-3-C206.05-T01A Prepare for a Nuclear Attack	X
03-3-C208.05-T01A Cross a Radiologically Contaminated Area	X
03-3-C209.05-T01A React to Smoke Operations	X
03-3-C222.05-T01A Respond to the Residual Effects of a Nuclear Attack	X
03-3-C223.05-T01A Respond to the Initial Effects of a Nuclear Attack	X
03-3-C224.05-T01A Conduct Operational Decontamination	X
03-3-C226.05-T01A Cross a Chemically Contaminated Area	X
05-2-0911 Defend a Convoy Against a Ground Attack	X
09-2-0337.05-T01A React to Unexploded Ordnance (UXO)	X
19-3-2204.05-T01A Employ Physical Security Measures	X

Collective Tasks		Unit Survivability
44-1-C220.05-T01A	Use Passive Air Defense Measures	X
44-1-C221.05-T01A	Take Active Combined Arms Air Defense Measures Against Hostile Aerial Platforms	X
71-2-0326.05-T01A	Perform Risk Management Procedures	X
Perform CSS and Sustainment		
05-3-5700	Install Nonstandard Low-Voltage, Electrical-Power Distribution Equipment	
05-3-5701	Install Low-Voltage, Electrical-Power Distribution Equipment	
05-3-5702	Install Underground Electrical-Power Distribution Equipment	
05-3-5703	Perform Electrical Safety Systems Testing and Maintenance	
05-3-5704	Perform Nonorganic Equipment Power Distribution Maintenance Operations	
05-3-5705	Retrieve Electrical-Power Generation and Distribution Equipment	
05-3-5707	Perform Nonorganic Power Generation System Maintenance Operations	
05-3-5709	Perform a Power Plant Installation Survey	
05-3-5710	Perform a Distribution System Installation Survey	
05-3-5712	Perform a Power Plant Maintenance Survey	
05-3-5713	Perform a Power Distribution System Maintenance Survey	
05-3-5714	Perform an Electrical Load Survey	
05-3-5715	Perform Power Plant Design Technical Assistance	
05-3-5716	Perform Power Plant Installation Technical Assistance	
05-3-5717	Perform Power Plant Distribution System Design Technical Assistance	

Collective Tasks		Unit Survivability
05-3-5718	Perform Power Plant Distribution System Installation Technical Assistance	
05-3-5719	Perform Power Plant Generation System Maintenance Technical Assistance	
05-3-5720	Select a Temporary Power Plant Site	
05-3-5721	Design Temporary Nonstandard Power Distribution Systems	
05-3-5722	Prepare Power Systems Construction Estimates	
05-3-5723	Install Prime Power Generation Equipment	
05-3-5724	Install Expedient, Surface-Laid, Electrical-Power Distribution Equipment	
05-3-5725	Install Aerial Electrical Power Distribution Equipment	
05-3-5726	Assess for Upgrade of Existing Power Distribution Systems	
05-3-5728	Assess Power Generation Systems for Damage	
05-3-5729	Operate Power Generation and Distribution Equipment	
05-3-5730	Perform Electrical-Power Generation Equipment Organizational Maintenance Operations	
05-3-5731	Perform Electrical-Power, Distribution Equipment Organizational Maintenance Operations	
05-3-5733	Perform Power Plant and Distribution Equipment Shipment	
08-2-C316.05-T01A	Transport Casualties (for Units Without Medical Treatment Personnel)	X
08-2-R303.05-T01A	Conduct Battlefield Stress Reduction and Stress Prevention Procedures	X
08-2-R315.05-T01A	Perform Field Sanitation Functions	X
19-3-3106.05-T01A	Handle Enemy Prisoners of War (EPWs)	X

Collective Tasks		Unit Survivability
43-2-0001.05-T01A	Conduct Unit Level Maintenance Operations	X
Exercise Command and Control		
05-2-7008	Prepare an Operation Order (OPORD) (Company/Platoon)	X
05-4-1379	Provide Liaison	X
12-3-0001.05-T01A	Maintain Platoon Strength	X

Figure 2-2. Mission-to-Collective Task Matrix

CHAPTER 3

Mission Outlines/Training Plans

3-1. General. The mission outline illustrates the relationship between the missions and their support tasks. Each outline provides the trainer with a diagram of the unit mission, sample FTXs and/or STXs, and the collective tasks that comprise them.

3-2. Mission Outlines. Since unit training is mission-oriented, the mission outline shows how task training contributes to the unit ability to perform its missions. The mission outlines, Tables 3-1 through 3-5, provide the commander with a visual outline of his unit missions in a format that facilitates the planning and management of training.

Table 3-1. Sample Countermobility Mission Outline

ENGINEER PLATOON COUNTERMOBILITY	
Task Number	Task Title
03-3-C201.05-T01A	Prepare for Operations Under Nuclear, Biological, and Chemical (NBC) Conditions
05-3-0303	Construct Wire Obstacles
05-3-0306	Construct a Tank Ditch
05-3-0307	Construct a Log Obstacle
05-3-0904.05-R01A	Establish Jobsite Security
05-3-1018	Conduct Troop-Leading Procedures
07-1-1923.05-T01A	React to Indirect Fire
10-2-0319.05-T01A	Receive Airdrop Resupply
71-2-0326.05-T01A	Perform Risk Management Procedures

Table 3-2. Sample General Engineering Mission Outline

ENGINEER COMPANY GENERAL ENGINEERING	
Task Number	Task Title
05-2-0726	Conduct Dump Truck Hauling Operations
05-3-0313	Construct Revetments
05-3-0402.05-R01A	Perform a Route Classification
05-3-0611	Construct/Repair a Bridge Abutment
05-3-0710	Assemble and Install Culverts
05-3-0765	Construct or Repair a Sewerage System
05-3-0778	Construct or Repair a Steel Frame Pre-engineered Structure
05-3-0784	Construct/Repair Headwalls
05-3-0787	Construct/Repair a Wood Frame Structure
05-3-0789	Construct/Repair a Concrete Structure
05-3-0790	Construct/Repair Electrical Utilities
05-3-0791	Construct/Repair a Water Distribution System
05-3-0792	Install Coupled Pipeline
05-3-0904	Establish Jobsite Security
08-2-0314.05-T01A	Treat Unit Casualties (for Units With Medical Treatment Personnel)

Table 3-3. Sample Mobility Mission Outline

ENGINEER PLATOON MOBILITY	
Task Number	Task Title
05-3-0114	Conduct Breaching Operations
05-3-0404	Conduct a River Crossing Site Reconnaissance
05-3-0118	Conduct Minesweeping Operations
05-3-0609	Operate River Crossing Sites
05-3-0603	Prepare an Expedient Ford
05-3-0767	Clear Obstacles With Engineer Equipment
03-2-3008.05-T01A	Conduct a Radiological, Chemical, or Biological Reconnaissance or Survey
03-3-C208.05-T01A	Cross a Radiologically Contaminated Area

Table 3-4. Sample Perform Survivability Construction Mission Outline

ENGINEER PLATOON PERFORM SURVIVABILITY CONSTRUCTION	
Task Number	Task Title
05-3-0304	Construct Vehicle Fighting Positions
05-3-0305	Construct Vehicle Protective Positions
05-3-0306	Construct a Tank Ditch
05-3-0312	Construct Bunkers and Shelters

Table 3-5. Sample Unit Survivability/Unit Defense Mission Outline

ENGINEER COMPANY UNIT SURVIVABILITY/UNIT DEFENSE	
Task Number	Task Title
03-3-C203.05-T01A	Respond to a Chemical Attack
03-3-C205.05-T01A	Prepare for a Friendly Nuclear Strike
05-2-0301	Camouflage Vehicles and Equipment
11-5-0121.05-T01A	Provide a Field Cable or Wire System
44-1-C220.05-T01A	Use Passive Air Defense Measures
44-1-C221.05-T01A	Take Active Combined Arms Air Defense Measures Against Hostile Aircraft

CHAPTER 4

Training Exercise

4-1. General. Training exercises are used to train and practice the performance of collective tasks. This MTP contains a sample STX. It is designed to assist in developing, sustaining, and evaluating the unit mission proficiency. Table 4-1 lists the STX by exercise number, title, and page number.

Table 4-1. STX Exercise

Exercise Number	Exercise Title	Page
STX 5-2-E0001	Breaching Obstacles	4-1

4-2. Situational Training Exercise. STXs are short, scenario-driven, mission-oriented, tactical exercises used to train a group of closely related collective tasks. STXs provide the information for training the missions that make up the critical wartime mission. STXs—

- Provide repetitive training of missions.
- Allow the training to focus on identified weaknesses.
- Allow the unit to practice the mission STX before conducting a higher-echelon FTX.
- Save time by providing most of the information needed to develop a vehicle for training.

ENGINEER PLATOON STX 5-2-E0001 BREACHING OBSTACLES

1. Objective. This sample STX trains collective, leader, and individual tasks in the platoon operation (breaching obstacles).

2. Interface. This STX supports the company FTX 5-2-E0001 requirement to conduct combat operations.

3. Training.

a. Individual Training. This training should be based on the soldier's manual tasks required to support this STX. Use the individual-to-collective task matrix in Chapter 2 as a source for these individual tasks. Individual training is based on the tasks, conditions, and standards in the 12B and the soldier's common tasks manuals. Training should be hands-on and performance-oriented. During training, leaders assess soldier proficiency by evaluating task performance against the soldier's manual standards then providing feedback to the soldiers. The individual training and evaluation program includes common task tests and the commander's evaluations.

b. Collective Training. This training should be based on the collective tasks required for the STX. Battle drills and STXs are key tools for squad and platoon collective training. As with individual tasks, drills should be trained to standard with feedback provided. Collective tasks that could support this STX and mission (as well as other missions) are in the mission-to-collective task matrix in Chapter 2.

c. Leader Training. This training should be based on the leader tasks required for the exercises as well as the individual tasks. Leader tasks are trained in the same manner as stated in paragraph 3a or by one or all of the following methods. When material and facilities are not available, innovation is the answer. Do not limit training to the methods listed below.

- (1) Classroom discussions on how to plan the exercise and how to implement unit SOP.
 - (2) A map reconnaissance assists in terrain analysis and war gaming. (Use a map of the area where the STX is to be conducted.)
 - (3) Terrain board or sand table exercises permit simulations or miniatures to be used to gain three-dimensional perspectives in war gaming or rehearsals. (Model the terrain board or the sand table to match the terrain where the exercise will be conducted.)
 - (4) Tactical exercises without troops (TEWTs) allow leaders to train on the ground, practicing land-navigation movement, reporting, and other leader actions.
 - (5) Simulations and games teach leaders as part of a continuing officer and noncommissioned officer (NCO) development program.
 - (6) Training extension courses use audiovisual equipment to present information and demonstrate how tasks are performed to standard.
- d. Training Tips and Instructions. The following are training tips and general instructions on how to prepare for and accomplish the STX:
- (1) Know the requirements for breaching obstacles, marking obstacles, and tactical movement.
 - (2) Conduct a leader's reconnaissance of the training area with squad leaders to ensure that you do not make time-consuming mistakes.
 - (3) Review the standards for the T&EO that supports this exercise.
 - (4) Conduct this STX using one of the following options:
 - (a) With ammunition, without ammunition, or using live fire. The use of ammunition is encouraged to add more realism to the exercise.
 - (b) With or without the Multiple Integrated Laser Equipment System (MILES). The MILES provides better feedback and should be used if it is available.
 - (c) Under all environmental conditions, both day and night and with or without an NBC environment. These scenarios should involve an active NBC environment.
 - (5) Ensure that this STX is initially trained and rehearsed slowly, on open terrain, during good visibility, and with frequent explanations and critiques by leaders. This simple execution, combined with a thorough prebrief and "chalk talks" constitutes the "crawl" stage of STX training. The "walk" phase of this STX entails conducting the training at closer to normal rates, on more difficult terrain, and with stops for explanation and critique only when problems occur (expect for planned AARs). During the "run" phase, the STX is executed under conditions as close as possible to those expected in combat (including full operational security [OPSEC] and camouflage, realistic time frames and distances, challenging terrain, and aggressive OPFOR, NBC environment, and movement distance). This exercise is conducted at full speed after conducting building block training (individual training and drills) to reach the run level of execution.
 - (6) Ensure that the T&EO standards for this exercise (from Chapter 5) are met to obtain the maximum benefits from the training.

(7) Conduct this exercise on a recurring basis to sustain proficiency; however, since many of the T&EOs in this STX will be trained in other STXs, practice may occur through integration rather than retraining the STX.

(8) Ensure that the OPFOR replicates enemy forces in size and strength to portray threat activities realistically.

(9) Assign at least one evaluator to control OPFOR activities. The evaluator evaluates OPFOR actions, ensures realism, stresses safety, and assesses loss and damage. If the OPFOR are in groups for several simultaneous actions, additional OPFOR evaluators or controllers are necessary.

(10) Ensure that OPFOR units look and fight like a potential enemy. This will help soldiers understand threat tactics, doctrine, and weapons systems.

e. Training Enhancers. This STX requires the platoon to breach an obstacle, move tactically, support by fire, and mark an obstacle.

(1) When basic proficiency is attained for the tasks in this STX, the STX may be conducted under limited visibility conditions, both with and without night vision devices (NVDs).

(2) This STX can be conducted under increasing MOPP levels as proficiency increase.

4. General Situation.

a. Contact with the enemy obstacle has been established. Initial reports indicate that the obstacle is overwatched by a company-sized element. His defensive positions are not well established. He has the capability for indirect fire and close air support (CAS). The enemy has used chemical weapons and will probably do so again. A breach of the obstacle has been ordered to allow maneuver forces to move through to attack the enemy. Figure 4-1 illustrates the graphic scenario of task performance in this exercise.

b. This exercise begins with the receipt of a company fragmentary order (FRAGO) by the platoon and ends after the obstacle is marked. An AAR should be held after the obstacle has been breached and marked. A final AAR should be conducted once all evaluation notes are compiled. If necessary, run portions of the exercise again until you are satisfied with your platoon performance. Table 4-2 provides a recommended sequence of T&EOs and a recommended time for each portion of the STX.

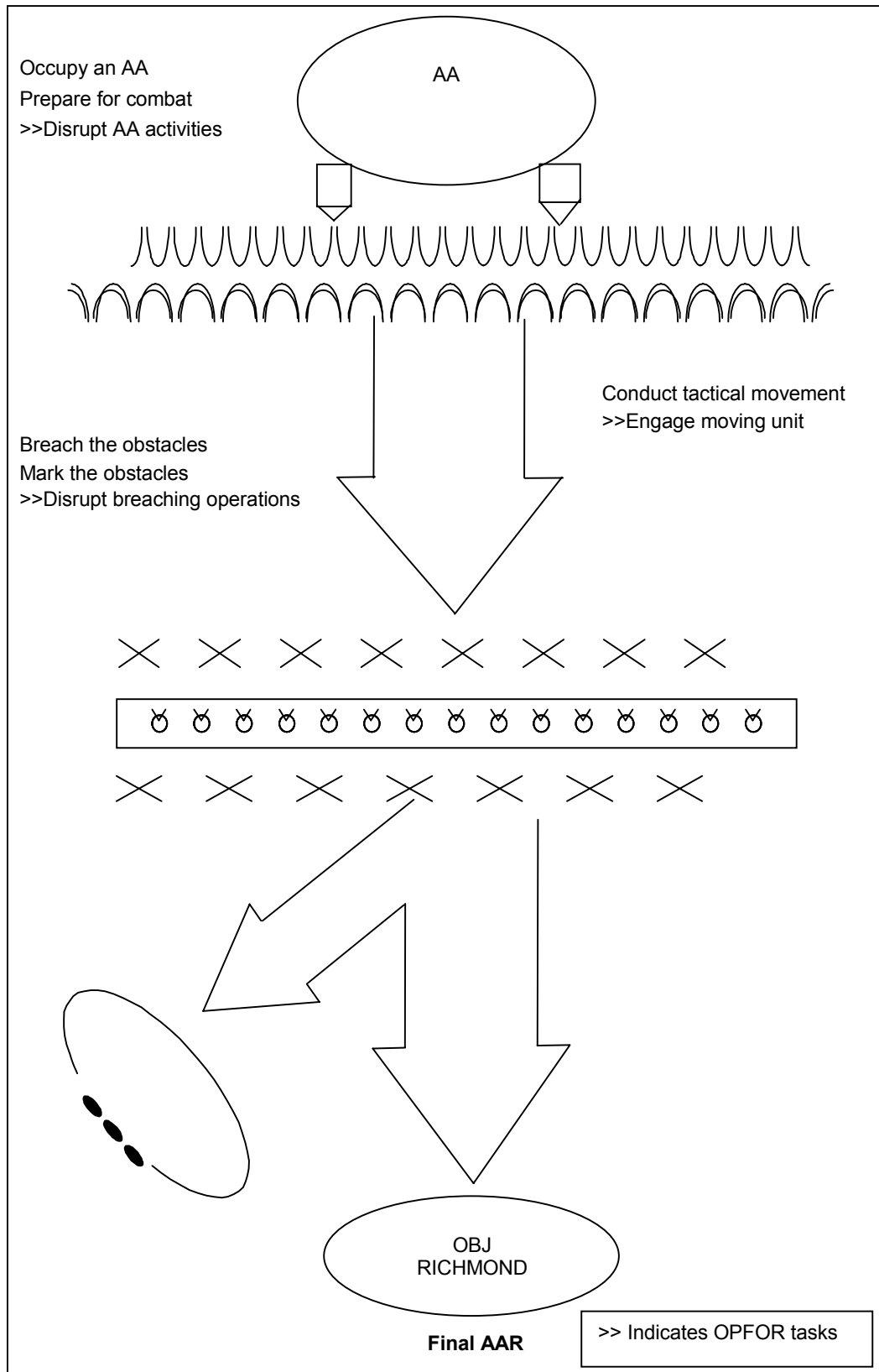


Figure 4-1. General Scenario STX

Table 4-2. Sample Suggested Scenario

Event	Action	Estimated Time
Module 1		
1	Occupy an AA	4 hours
2	Receive a FRAGO	15 minutes
3	Plan Breaching Operations	3 hours
4	Issue a FRAGO	2 hours
5	Conduct an AAR	1 hour
6	Conduct Precombat Operations	2 hours
7	Conduct Tactical Movement	1 hour
8	Breach the Obstacle	1 hour
9	Conduct an AAR	1 hour
10	Mark the Obstacle	1 hour
11	Conduct an AAR	1 hour
Total time:		17.25 hours
<p>1. These tasks are integrated and evaluated throughout the exercise.</p> <p>2. Events will be trained to standards, not time limitations. The time required to train an event will vary based on METT-TC factors and the unit training proficiency.</p> <p>3. Additional time may be required if great portions of the exercise are conducted at night or during other limited visibility.</p> <p>NOTE: These tasks are integrated and evaluated throughout the exercise.</p>		

5. Special Situation.

a. Your platoon is part of a company in a secure assembly area (AA). The platoon receives a FRAGO to breach obstacles (Figure 4-2).

b. The company commander has ordered your platoon to lift your supporting fires. A sister platoon is prepare to provide support for the breach and marking of the obstacle. The company commander orders your platoon to breach the obstacle.

6. Support Requirements.

a. Minimum Trainers and Observers/Controllers. The company commander or the platoon leader can conduct this exercise and will be the trainer and primary evaluator. At least one other observer/controller (O/C) is required with the OPFOR. Another platoon being trained or evaluated should be used as the platoon supporting the breach operations. This platoon will need an additional trainer or O/C.

b. Vehicles/Communications. Those organic to the platoon are needed for this exercise. Two or three vehicles or trailers should be in the OPFOR supply site.

c. Opposing Forces. The OPFOR ground force should at least be a reinforced squad.

FRAGMENTARY ORDER	
	Copy ____ of ____ copies 25 th EN BN
<p>FRAGMENTARY ORDER _____</p> <p>References:</p> <p>1. SITUATION.</p> <p style="margin-left: 40px;">a. Enemy Forces. The enemy forces are at 60 to 70 percent strength. They are preparing to counterattack and are expected to use air-delivered or artillery-delivered nonpersistent nerve agent.</p> <p style="margin-left: 40px;">b. Friendly Force. (Element designation) attack (date/time group) to destroy the enemy force at Objective _____ to disrupt the enemy counterattack.</p> <p>2. MISSION. (Element destination) is to provide breach support for (supported elements designation) to breach obstacles along the main avenue of approach.</p> <p>3. EXECUTION.</p> <p style="margin-left: 40px;">a. Concept of the Operations. (See overlay.)</p> <p style="margin-left: 80px;">(1) Intent. Breach obstacles and destroy the enemy preparing to counterattack.</p> <p style="margin-left: 80px;">(2) Fire Support. Priority of fire to (another) platoon.</p> <p style="margin-left: 40px;">b. (Another) Platoon.</p> <p style="margin-left: 80px;">(1) Provide breach support for (evaluated) platoon.</p> <p style="margin-left: 80px;">(2) Prepare to replace (evaluated) platoon in case they become combat ineffective.</p> <p style="margin-left: 40px;">c. (Evaluated) Platoon.</p> <p style="margin-left: 80px;">(1) Provide local support by fire (initially).</p> <p style="margin-left: 80px;">(2) Breach obstacles.</p> <p style="margin-left: 80px;">(3) Mark obstacles according to the tactical standing operating procedure (TACSOP).</p> <p style="margin-left: 40px;">d. Coordinating Instructions.</p> <p style="margin-left: 80px;">(1) Company release point (RP) is (grid).</p> <p style="margin-left: 80px;">(2) Company linkup point is (grid).</p>	

Figure 4-2. Sample FRAGO for STX 5-2-E0001

d. Maneuver Area. A 15 x 4 kilometer training area is desired. This area should provide for infiltration, cross-county movement, locations for supply sites, and a complex obstacle. The terrain should offer multiple covered and concealed approaches to the objective area. Using terrain that limits the leader

to a geographical or school solution does not allow evaluation of the unit ability to conduct a terrain analysis and select and conceal positions.

- e. Consolidated Support Requirements. This exercise requires the items listed in Table 4-3.

Table 4-3. Consolidated Support Requirements for STX 5-2-E0001

Ammunition	DODIC	Estimated Basic Load	
5.56 mm	A080	150 rounds per rifle	
7.62 mm	A111	400 rounds per M60	
5.56 mm	A075	250 rounds per SAW	
Caliber .50	A598	250 rounds per M2	
ATWESS (AT-4)	L367	15 each per company (inert)	
Hand grenade, body, M69	G811	2 per man	
Hand grenade, fuse (practice)	G878	2 per man	
Simulators, projectile, ground burst	L598	50 per exercise	
Simulator, hand grenade, M116 series	L601	20 per squad (without live demolitions to simulate demolitions) or 6 per squad	
Demolitions (See the note below.)			
MICLIC		4 per company with 2 reloads	
Bangalore torpedo kit		1 per squad	
Charge, block TNT		50 per squad	
MDI M11, 12, 13, 14		15 each (total 60) per platoon	
MDI igniters		60 per platoon	
Time fuse		500 feet per platoon	
Satchel charge, M183		30 per platoon	
40-pound shape charge		12 per platoon	
Smoke grenades, white		60 per platoon	
Smoke pot, ground		10 per platoon	
Mines			
Other Items			
Batteries, BA 200 (6-volt)		50 each	
Batteries, BA 3090 (9-volt)		400 each	
Class IV			
Concertina wire			
Pickets			
Staples			
Barbed wire			
MILES Equipment	Company	Evaluators	OPFOR
APC	13		13/4
Caliber .50 system	15		13/4
M240 system	2		
M19 blank firing adapter	15		13/4
M16 system	120		120/28
M60 machine gun system	13		13/2
Controller guns		8	
Small arms alignment fixture		2	
NOTE: Ammunition and demolitions are basic loads and should be restocked (according to use) during the exercise.			

- f. Regulations and Requirements. Commanders should consult local regulations and range-control requirements during coordination to ensure compliance with restrictions such as constraints on pyrotechnics.

7. Training and Evaluation Outline Sequence. Table 4-4 lists the T&EOs from Chapter 5 that are used to evaluate this STX.

Table 4-4. T&EOs Used in Evaluating STX 5-2-E0001

Task Title	Task Number
Conduct Troop-Leading Procedures	05-3-1018.05-R01A
Conduct a Radiological, Chemical, or Biological Reconnaissance or Survey	03-2-3008.05-T01A
Cross a Radiologically Contaminated Area	03-3-C208.05-T01A
Support Breaching Operations	05-3-0114
Reorganize as Infantry	05-2-1200
Fight as Infantry	05-2-1215

CHAPTER 5

Training and Evaluation Outlines

The T&EOs for the unit are listed in Figure 5-1. The mission-to-collective task matrix in Chapter 2 lists the T&EOs required to train the critical wartime missions according to their specific BOS.

Develop Intelligence

Process Captured Documents and Equipment (19-3-3105.05-T01A).....	5-3
Maintain Operations Security (OPSEC) (71-2-0332.05-T01A).....	5-5

Deploy/Conduct Maneuver

React to Indirect Fire (07-1-1923.05-T01A).....	5-7
Conduct a Convoy (07-2-1301.05-T01A).....	5-9
React to an Ambush (07-3-1112.05-T01A).....	5-13

Protect the Force

Conduct a Radiological, Chemical, or Biological Reconnaissance or Survey (03-2-3008.05-T01A)	5-15
Prepare for Operations Under Nuclear, Biological, and Chemical (NBC) Conditions (03-3-C201.05-T01A)	5-17
Prepare for a Chemical Attack (03-3-C202.05-T01A)	5-19
Respond to a Chemical Attack (03-3-C203.05-T01A)	5-21
Prepare for a Friendly Nuclear Strike (03-3-C205.05-T01A)	5-23
Prepare for a Nuclear Attack (03-3-C206.05-T01A)	5-25
Cross a Radiologically Contaminated Area (03-3-C208.05-T01A).....	5-27
React to Smoke Operations (03-3-C209.05-T01A)	5-29
Respond to the Residual Effects of a Nuclear Attack (03-3-C222.05-T01A)	5-31
Respond to the Initial Effects of a Nuclear Attack (03-3-C223.05-T01A)	5-33
Conduct Operational Decontamination (03-3-C224.05-T01A)	5-35
Cross a Chemically Contaminated Area (03-3-C226.05-T01A)	5-38
Defend a Convoy Against a Ground Attack (05-2-0911)	5-40
React to Unexploded Ordnance (UXO) (09-2-0337.05-T01A)	5-43
Employ Physical Security Measures (19-3-2204.05-T01A)	5-45
Use Passive Air Defense Measures (44-1-C220.05-T01A).....	5-47
Take Active Combined Arms Air Defense Measures Against Hostile Aerial Platforms (44-1-C221.05-T01A)	5-49
Perform Risk Management Procedures (71-2-0326.05-T01A).....	5-52

Perform CSS and Sustainment

Install Nonstandard Low-Voltage, Electrical-Power Distribution Equipment (05-3-5700)	5-54
Install Low-Voltage, Electrical-Power Distribution Equipment (05-3-5701)	5-57
Install Underground Electrical-Power Distribution Equipment (05-3-5702)	5-60
Perform Electrical Safety Systems Testing and Maintenance (05-3-5703)	5-62
Perform Nonorganic Equipment Power Distribution Maintenance Operations (05-3-5704).....	5-64
Retrieve Electrical-Power Generation and Distribution Equipment (05-3-5705)	5-66
Perform Nonorganic Power Generation System Maintenance Operations (05-3-5707)	5-69
Perform a Power Plant Installation Survey (05-3-5709)	5-72
Perform a Distribution System Installation Survey (05-3-5710).....	5-75
Perform a Power Plant Maintenance Survey (05-3-5712).....	5-78
Perform a Power Distribution System Maintenance Survey (05-3-5713).....	5-80
Perform an Electrical Load Survey (05-3-5714)	5-82
Perform Power Plant Design Technical Assistance (05-3-5715).....	5-84
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Figure 5-1. List of T&EOs

ELEMENTS: Company Headquarters
 Four Prime Power Platoon Headquarters
 Eight Prime Power Sections

TASK: Process Captured Documents and Equipment (19-3-3105.05-T01A)
 (FM 3-19.40)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The enemy equipment and documents have been captured. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The element processes all captured equipment and documents based on disposition instructions and within the time standards established by higher headquarters (HQ). The time required to perform this task is increased when conducting it in mission-oriented protective posture (MOPP) 4.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
1. The element tags all captured equipment and documents. <ol style="list-style-type: none"> Described the type of equipment and documents, such as maps, photos, rifles, and radios. Annotated the date and time of capture. Provided the place (grid coordinates) of capture. Noted the capturing unit. Furnished the circumstances of the capture. Identified the prisoner's name on the tag if the items were taken from enemy prisoners of war (EPWs). 		
* 2. The element leader reports the capture of equipment and documents to higher HQ. <ol style="list-style-type: none"> Described the type of equipment and documents. Stated the date and time of capture. Identified the capturing unit. Furnished the place (grid coordinates) of the capture. 		
* 3. The element leader disposes of the equipment and documents according to the guidance received from higher HQ. <ol style="list-style-type: none"> Destroyed, secured, evacuated, or abandoned the equipment. Evacuated the documents through the chain of command to intelligence personnel. 		

TASK PERFORMANCE/EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

ARTEP 5-617-11-MTP

SUPPORTING INDIVIDUAL TASKS: NONE

SUPPORTING COLLECTIVE TASKS: NONE

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: Company Headquarters
 Four Prime Power Platoon Headquarters
 Eight Prime Power Sections

TASK: Maintain Operations Security (OPSEC) (71-2-0332.05-T01A)

(AR 530-1)

(AR 380-5)

(FM 24-33)

(FM 24-35)

(FM 24-35-1)

(FM 3-19.30)

(FM 34-60)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The element is operating where the enemy can detect it. The enemy can employ electronic-warfare (EW) measures and air and ground reconnaissance elements. The element can also use the local populace and enemy intelligence agencies. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The element prevents the enemy from learning its strength, dispositions, intentions, and any essential elements of friendly information (EEFI) or from surprising the elements main body. The time required to perform this task is increased when conducting it in mission-oriented protective posture (MOPP) 4.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>* 1. Leaders check or perform information security measures.</p> <ul style="list-style-type: none"> a. Disseminated the information on a need-to-know basis. b. Prohibited fraternization with civilians. c. Conducted alerts, deployment preparations, and loading operations to minimize detection. d. Ensured that maps contained only the minimum-essential information. e. Conducted inspections and gave briefings to ensure that personnel did not carry any details of military activities in their personal materials, such as letters, diaries, notes, drawings, sketches, or photographs. f. Sanitized all planning areas and positions before departure. <p>2. The element performs camouflage discipline.</p> <ul style="list-style-type: none"> a. Concealed and camouflaged with natural materials, whenever possible, to prevent ground or air observation. b. Moved on covered and concealed routes. c. Covered all reflective surfaces and unit markings with nonreflective material, such as cloth, mud, or a camouflage stick. d. Covered or removed all vehicle markings. <p>3. The element camouflages individual positions and equipment to prevent detection from 35 meters or greater and camouflages vehicles to prevent detection from 100 meters or greater.</p> <ul style="list-style-type: none"> a. Ensured that the foliage was not stripped near the unit position. b. Camouflaged earth berms. c. Ensured that the camouflage nets were erected. d. Evaded crossing near footpaths, trails, and roads. e. Erased any tracks leading into the positions. f. Ensured that vehicles that were parked in the shadows were moved as the shadows shifted. g. Replaced and replenished the camouflage. h. Evaded movement in the area to prevent ground and air detection. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>4. The element employs the company net control station (NCS) and enforces communications security (COMSEC).</p> <ul style="list-style-type: none"> a. Enforced signal operation instructions (SOI) and signal supplemental instructions (SSI) procedures, such as challenges, authentications decoding, and call signs and frequencies. Ensured that the monitored traffic did not reveal information to the enemy. b. Employed approved radiotelephone operator (RATELO) procedures. c. Followed COMSEC procedures, such as keeping transmissions short, using the lowest possible power settings, using directional antennas, changing transmission patterns, and maintaining radio silence. d. Followed procedures for operations during jamming. e. Made maximum use of the messenger and wire service. f. Used visual signals according to the unit standing operating procedure (SOP). <p>5. The element employs physical security measures.</p> <ul style="list-style-type: none"> a. Employed observation posts (OPs). b. Employed counterreconnaissance patrols. c. Followed stand-to procedures. d. Employed mines and obstacles, when permitted. e. Tied in with adjacent units for coordination and fire. f. Used the challenge and password. g. Limited access into the area of the unit. h. Safeguarded weapons, ammunition, sensitive items, and classified documents. i. Picked up litter. j. Employed air guards. <p>* 6. All leaders enforce noise and light discipline.</p>		

TASK PERFORMANCE/EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS: NONE

SUPPORTING COLLECTIVE TASKS: NONE

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: Company Headquarters
 Four Prime Power Platoon Headquarters
 Eight Prime Power Sections

TASK: React to Indirect Fire (07-1-1923.05-T01A)
 (FM 7-7) (FM 3-21.71) (FM 7-10)
 (FM 7-8)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The element is moving, halted, or occupying a defensive position. Any member of the platoon gives the alert, "Incoming!" or a round impacts on or near their location. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: Within 2 seconds of the alert, the leader designates the direction and the distance to move. The platoon moves to the specified location. The time required to perform this task is increased when conducting it in mission-oriented protective posture (MOPP) 4.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ol style="list-style-type: none"> 1. The element reacts to indirect fire while moving mounted. <ol style="list-style-type: none"> a. The element leader gave the direction and distance to move; for example, "3 o'clock, 200 meters." b. Vehicle commanders repeated the "Incoming!" alert to squad personnel. <ol style="list-style-type: none"> (1) Personnel closed all hatches. (2) Drivers moved rapidly out of the impact area in the direction ordered by the leader. 2. The element reacts to indirect fire while moving dismounted. <ol style="list-style-type: none"> a. Ensured that if vehicles with mounted weapons were available, the vehicles— <ol style="list-style-type: none"> (1) Halted as close as possible to the dismounted team, allowing personnel to mount. (2) Moved rapidly out of the impact area in the direction ordered by the squad leader. b. Ensured that if vehicles were not available, dismounted personnel kept low and ran out of the impact area in the direction and at the distance ordered by the squad leader. 3. The element reacts to indirect fire when in a defensive position. <ol style="list-style-type: none"> a. Moved the vehicles immediately out of the impact area to alternate positions. b. Protected any dismounted personnel by having each one go under the overhead cover of their fighting positions. 4. The element members move to designated rally points according to the element operation order (OPORD). 5. The element establishes immediate security at the designated rally point. 6. The element consolidates and reorganizes. * 7. The element leader submits a shelling report (SHELREP) or a mortar bombing report (MORTREP) to higher headquarters (HQ). <p>NOTE: Digital units send the SHELREP using frequency-modulated (FM) or</p>		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
digital means or the Force XXI Battle Command Brigade and Below (FBCB2) System according to the unit tactical standing operating procedure (TACSOP).		

TASK PERFORMANCE/EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS: NONE

SUPPORTING COLLECTIVE TASKS

Task Number	Task Title
05-2-1218	Conduct Report Procedures

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: Company Headquarters
 Four Prime Power Platoon Headquarters
 Eight Prime Power Sections

TASK: Conduct a Convoy (07-2-1301.05-T01A)
 (FM 55-30) (FM 21-16)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: Upon receipt of an operation order (OPORD), the element moves to a new location given in the OPORD and conducts operations at that location. There is a possibility of enemy contact with threat patrols up to platoon and company size. Threat mounted forces have been operating in the area through which the route passes. The company standing operating procedure (SOP) is available and contains movement readiness levels and current loading plans. The convoy may be conducted during daylight or darkness, including blackout conditions. Radio and visual signals will be used for convoy control. The column may conduct halts. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The element conducts the convoy and arrives at its new location by the time specified in the OPORD. The time required to perform this task is increased when conducting it in mission-oriented protective posture (MOPP) 4.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>* 1. The element commander conducts a map reconnaissance using all available position/navigation (POS/NAV) and terrain analysis capabilities, to include space-based assets.</p> <ul style="list-style-type: none"> a. Indicated the start point (SP). b. Identified locations of friendly units. c. Identified potential ambush sites. d. Identified checkpoints (CPs). e. Identified sites to be used for scheduled halts. f. Indicated the release point (RP). <p>2. The reconnaissance party conducts a route reconnaissance using all available POS/NAV and mapping capabilities available.</p> <ul style="list-style-type: none"> a. Dressed in the designated MOPP gear. b. Activated the automatic chemical alarm. c. Monitored radiation-monitoring devices. d. Verified map information. e. Identified capacities of bridges and underpasses. f. Identified the location of culverts, ferries, fording areas, steep grades, and possible ambush sites. g. Prepared the map overlay. h. Computed the travel time. i. Prepared the strip map. <p>* 3. The convoy commander coordinates for required support with higher headquarters (HQ).</p> <ul style="list-style-type: none"> a. Included military police (MP) support. b. Included medical support. c. Included fire support (FS). d. Included engineer support. e. Included maintenance contact team support. f. Included additional requirements. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>4. The element prepares vehicles and equipment.</p> <ul style="list-style-type: none"> a. Performed preventive-maintenance checks and services (PMCS). b. Corrected minor deficiencies. c. Reported major deficiencies. d. Hardened vehicles using sandbags or other authorized materials. e. Covered unit identification markings on vehicles and personnel. f. Covered or removed reflective surfaces. g. Placed antennas at their lowest height. h. Turned radio volumes and squelches to their lowest setting, consistent with operational requirements. <p>* 5. The convoy commander organizes the convoy.</p> <ul style="list-style-type: none"> a. Assigned cargo vehicle positions. b. Positioned control vehicles without setting a pattern. c. Assigned recovery vehicle positions. d. Arranged hardened vehicles near the head of the convoy. e. Specified passenger locations. f. Appointed air guards. g. Organized the trail party element. h. Provided vehicle position listings to the trail party leader. <p>* 6. The convoy commander briefs the convoy personnel.</p> <ul style="list-style-type: none"> a. Provided strip maps to each vehicle driver. b. Identified the convoy chain of command. c. Detailed the convoy route. d. Specified the march rate and the catch-up speed. e. Specified convoy intervals. f. Identified the scheduled halts. g. Briefed accident and breakdown procedures. h. Briefed immediate-action security measures. i. Briefed blackout condition procedures. j. Specified the location of medical support. k. Specified the location of maintenance support. l. Briefed communication procedures. m. Specified the location and the identification of the destination. <p>7. The convoy crosses the SP.</p> <ul style="list-style-type: none"> a. Crossed at the specified time. b. Verified that vehicles had crossed the SP. c. Forwarded the SP crossing report to the convoy commander when the entire unit had passed the SP. <p>* 8. The convoy commander provides convoy information to higher HQ.</p> <ul style="list-style-type: none"> a. Reported the SP crossing time. b. Reported the CP clearance, when crossed. c. Pointed out data that conflicted with the maps. d. Used the correct signal operation instructions (SOI) codes in all transmissions. e. Reported the RP crossing time. <p>9. The convoy maintains march discipline.</p> <ul style="list-style-type: none"> a. Maintained the designated march speed. b. Maintained proper vehicle intervals. c. Crossed CPs as scheduled. d. Reacted correctly to the convoy commander's signals. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
e. Maintained security throughout the movement and during halts. 10. The company conducts a scheduled halt. a. Stopped the column at the prescribed time. b. Maintained prescribed vehicular intervals. c. Moved vehicles off the road. d. Established local security. e. Performed PMCS. f. Inspected vehicle loads. g. Departed at the specified time. 11. The company conducts an unscheduled halt. a. Alerted the march column. b. Reported the stoppage to higher HQ. c. Maintained prescribed vehicular intervals. d. Established local security. e. Reported the resumption of the march to higher HQ. 12. The convoy moves under blackout conditions. a. Provided a visual adjustment period. b. Prepared vehicles for blackout conditions. c. Maintained prescribed vehicle distances. d. Wore night vision goggles (specified personnel). e. Wore regular eye protection goggles. f. Used ground guides during poor visibility periods. 13. The trail party recovers disabled vehicles. a. Inspected the disabled vehicles. b. Repaired the disabled vehicles, when possible. c. Towed the vehicles, if necessary. d. Reported the status of the vehicles to the convoy commander. 14. The convoy moves through urban areas. a. Identified weight, height, and width restrictions. b. Used close-column formation. c. Obeyed traffic control directions. d. Used direction guides at critical intersections. 15. The convoy crosses the RP. a. Crossed at the specified time. b. Verified that the vehicles had crossed the RP. c. Forwarded the crossing report to higher HQ.		

TASK PERFORMANCE/EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS: NONE

SUPPORTING COLLECTIVE TASKS

Task Number	Task Title
05-1-1391	Request a Standard Geospatial Product
05-3-0412	Perform a Technical Reconnaissance
19-1-1102	Coordinate Route Reconnaissance and Surveillance
19-1-1201	Prepare Traffic Control Plan

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: Company Headquarters
Four Prime Power Platoon Headquarters
Eight Prime Power Sections

TASK: React to an Ambush (07-3-1112.05-T01A)
(FM 7-8) (FM 3-20.98) (FM 34-2-1)
(FM 7-92)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The element is in a prepared kill zone. The enemy initiates the ambush with a casualty-producing device and a high volume of fire. The unit has guidance provided by the rules of engagement (ROE) and from mission instructions, such as the peace mandate terms of reference, the Status of Forces Agreement (SOFA), and the rules of interaction (ROI). Civilians, government organizations, nongovernment organizations, private voluntary organizations, and the international press may be present on the battlefield. The presence of civilians can restrict the use of fires and reduce the combat power available to the commander. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The element reacts immediately to the ambush based on the type (near, far). The platoon disengages the element in the kill zone or forces the enemy to withdraw. The platoon continues follow-on operations. The unit complies with the ROE, mission instruction, and higher headquarters (HQ) and other special orders. The time required to perform this task is increased when conducting it in mission-oriented protective posture (MOPP) 4.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>NOTE: Leaders ensure that the ROE and the ROI are disseminated to subordinate personnel.</p> <ol style="list-style-type: none"> Personnel in the kill zone react to a near ambush (within hand grenade range). <ol style="list-style-type: none"> Returned fire immediately; assumed covered positions; and threw fragmentation, concussion, and smoke grenades. Assaulted individually through the ambush using individual fire and movement immediately after the grenades detonated. Personnel not in the kill zone react to a near ambush. <ol style="list-style-type: none"> Identified enemy positions. Initiated immediate suppressive fires against the enemy. Took up covered positions. Shifted fires as personnel in the kill zone assaulted through the ambush. Personnel receiving fire in a far ambush (beyond hand grenade range) immediately return fire and take up covered positions. <ol style="list-style-type: none"> Suppressed or destroyed enemy crew-served weapons first. Obscured the enemy position with smoke. Sustained suppressive fires and shifted them as the assaulting squads fought through the enemy position. Personnel not receiving fire react to a far ambush. <ol style="list-style-type: none"> Moved by a covered and concealed route to a vulnerable flank of the enemy position. Assaulted using fire and movement techniques. The element forward observer (FO) calls for and adjusts indirect fires as directed by the element leader. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
a. Used indirect fires to isolate the enemy position. b. Adjusted fires on any retreating enemy. * 6. The platoon leader accounts for all personnel and equipment after the enemy has withdrawn. a. Reported the situation to higher HQ. b. Consolidated and reorganized as necessary. c. Continued the mission.		

TASK PERFORMANCE/EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS: NONE

SUPPORTING COLLECTIVE TASKS

Task Number	Task Title
05-2-0100	Coordinate the Synchronization and Integration of Fire Support (FS)
08-2-0314.05-T01A	Treat Unit Casualties (for Units With Medical Treatment Personnel)
12-1-0403.05-T01A	Report Casualties

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: Company Headquarters
 Four Prime Power Platoon Headquarters
 Eight Prime Power Sections

TASK: Conduct a Radiological, Chemical, or Biological Reconnaissance or Survey (03-2-3008.05-T01A)
 (FM 3-19)

ITERATION: 1M 2M 3M 4M 5M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The element is conducting operations in an area where nuclear, biological, and chemical (NBC) weapons have been initiated. The commander needs to determine the presence of (or information on) radiological, chemical, or biological hazards in the area of operational concern. This task is always performed in MOPP4.

TASK STANDARDS: The commander and operations section plan a reconnaissance or survey mission for the company organic reconnaissance element. The plan is issued with two-thirds planning time remaining for the element. The plan must be detailed and feasible for the element to perform. If the situation and location permit, the commander supervises the preparation and execution.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ul style="list-style-type: none"> * 1. The element leader receives and analyzes the mission and identifies all unit tasks. * 2. The element leader issues a warning order (WO) as soon as possible to subordinate leaders. * 3. The element leader and the operations section make a tentative plan based on mission, enemy, terrain, troops, time available, and civilian considerations (METT-TC) factors. <ul style="list-style-type: none"> a. Planned reconnaissance or survey techniques, locations, turn-back dose rates (radiological missions), decontamination after the reconnaissance or survey, fire support, reporting procedures, logistical support, and leader and signal information. b. Coordinated for intelligence information, air- or indirect-fire support, and medical support and coordinated the element plan with units in the area of operations, if necessary. c. Drew, stocked, or coordinated petroleum, oils, and lubricants (POL); ammunition; MOPP gear; Classes II and VII support; and maintenance/recovery/Class IX support for the platoon. * 4. The element leader orders units to start movement, if necessary. * 5. The element leader reconnoiters the operations area and performs a map reconnaissance as a minimum. * 6. The element leader completes the plan and issues the operation order (OPORD) with two-thirds of the total planning time remaining for the platoon. * 7. The element leader supervises preparations of the reconnaissance or survey if the location of operations permits. Communications, supply, and maintenance sections assist the platoons with priority maintenance and resupply support. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>8. The element conducts a tactical road march or executes a traveling movement to the reconnaissance or survey site. The reconnaissance or survey element—</p> <ul style="list-style-type: none"> a. Executed a mounted movement technique (traveling, traveling overwatch, or bounding overwatch) or reconnoitered dismounted, as the situation and or mission required. b. Detected and marked the contaminated area, ensuring that marking signs were facing toward friendly areas. Detected uncontaminated areas and routes. Selected decontamination sites with a water source, cover and concealment, and the physical capacity to hold a site if required to perform reconnaissance for decontamination sites as a mission. c. Determined the limits of the contaminated area. Detected the types of chemical agents or specific levels and types of radiological contamination as required by the mission. <p>9. The headquarters (HQ), if prescribed by the mission, assists the reconnaissance or survey unit recovery operations.</p> <p>*10. The element leader or operations officer, if prescribed by the mission, debriefs the returning reconnaissance or survey units and forwards the acquired information to higher HQ in NBC 4 or NBC 5 format, if required.</p> <p>*11. The radiological element leaders record, collate, and submit individual and unit radiation exposure status (RES) readings to higher HQ.</p>		

TASK PERFORMANCE/EVALUATION SUMMARY BLOCK							
ITERATION	1M	2M	3M	4M	5M		TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS: NONE

SUPPORTING COLLECTIVE TASKS

Task Number	Task Title
05-3-0118	Conduct Minesweeping Operations
05-3-0904.05-R01A	Establish Jobsite Security
05-3-1220	Conduct Fire and Maneuver Operations
05-3-1239	Plan and Control Indirect Fire
07-2-1125.05-T01A	Conduct Passage of Lines (Passing/Stationary)
07-2-1301.05-T01A	Conduct a Convoy
07-3-C211.05-T01A	Move Tactically

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: Company Headquarters
 Four Prime Power Platoon Headquarters
 Eight Prime Power Sections

TASK: Prepare for Operations Under Nuclear, Biological, and Chemical (NBC) Conditions (03-3-C201.05-T01A)

(FM 3-11.11)

(FM 3-3)

(FM 3-4)

ITERATION: 1M 2M 3M 4M 5M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: Higher headquarters (HQ) informs the unit that opposing forces (OPFOR) are conducting NBC warfare in the area. NBC equipment has been issued. Soldiers carry protective masks with their load-carrying equipment (LCE), having mission-oriented protective posture (MOPP) gear readily available (within the work area). This task is always performed in MOPP4.

TASK STANDARDS: The element uses collective protection or takes measures to limit the effects of NBC attacks and/or contamination and continues the mission.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>* 1. The element leader checks the accountability and serviceability of the NBC defense equipment.</p> <ul style="list-style-type: none"> a. Ensured that the NBC detection equipment was issued to trained operators. b. Ensured that the NBC detection equipment was employed and operating within 15 minutes. c. Identified equipment shortages. d. Took action to obtain replacement equipment. <p>2. The element assumes MOPP levels as directed by higher HQ or as the NBC situation dictates and is prepared to operate at the time specified in the operation order (OPORD).</p> <ul style="list-style-type: none"> a. Donned masks and hoods within 15 seconds. b. Assumed MOPP4 within 8 minutes. <p>3. Soldiers take actions to protect themselves against an NBC attack.</p> <ul style="list-style-type: none"> a. Set up and used collective protective shelters (if available). b. Prepared protective shelters, such as foxholes with overhead cover. <p>* 4. The element leader adjusts the MOPP level using MOPP analysis.</p> <ul style="list-style-type: none"> a. Received and analyzed the enemy NBC threat capability. Took the following into consideration: <ul style="list-style-type: none"> (1) Was the unit targeted or could it be targeted? (2) Did the enemy have the capability to deliver chemical or nuclear weapons? (3) When or where could the enemy most likely deliver the chemical or nuclear weapons? b. Collected and analyzed weather data. Took the following into consideration: <ul style="list-style-type: none"> (1) Was it day or night? (2) What were current weather conditions (see the chemical downwind message [CDM] or weather report)? (3) What were weather conditions 2, 4, and 6 hours in the future (see the CDM or weather report)? c. Analyzed the element status and mission. Took the following into consideration: 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
(1) What was the mission? (2) What was the work rate? (3) How long did the work take? (4) What were the training and physical levels of the unit? (5) How long did it take to warn all the soldiers of an NBC attack?		

TASK PERFORMANCE/EVALUATION SUMMARY BLOCK							
ITERATION	1M	2M	3M	4M	5M		TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS: NONE

SUPPORTING COLLECTIVE TASKS: NONE

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: Company Headquarters
 Four Prime Power Platoon Headquarters
 Eight Prime Power Sections

TASK: Prepare for a Chemical Attack (03-3-C202.05-T01A)
 (FM 3-11.11) (FM 3-4)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: Opposing forces (OPFOR) are conducting chemical warfare or intelligence indicates its use is imminent. Higher headquarters (HQ) directs implementation of actions to minimize casualties and limit contamination. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: Unit personnel assume mission-oriented protective posture (MOPP) 4 within 8 minutes and complete preparation efforts before the attack or its effects reach their location. The element protects its personnel, equipment, food, and water and continues its mission. The time required to perform this task is increased when conducting it in MOPP4.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>* 1. The unit leader issues a warning order.</p> <p>2. Unit personnel start defensive preparations for a chemical attack.</p> <ul style="list-style-type: none"> a. Assumed MOPP4 within 8 minutes after notification. b. Attached M9 detector paper to their right arms, left wrists, either their right or left ankles, and the vehicles. c. Conducted MOPP field sanitation procedures. d. Emplaced chemical-agent alarms upwind of their position. <p>3. Unit personnel prepare fighting positions or shelters.</p> <ul style="list-style-type: none"> a. Used existing, natural, or man-made facilities (such as caves, ditches, culverts, and tunnels) as fighting positions and shelters. b. Dug fighting positions and bunkers with overhead cover. <p>NOTE: Fighting positions should have overhead cover, consisting of a minimum of 18 inches of soil, if time permits.</p> <p>* 4. The noncommissioned officers (NCOs) check personnel and fighting positions.</p> <ul style="list-style-type: none"> a. Ensured that personnel were at MOPP4. b. Ensured that individual and element fighting positions were hardened with sandbags and overhead cover. <p>* 5. The unit leader takes additional actions consistent with the tactical situation by increasing, decreasing, or modifying the MOPP level.</p>		

TASK PERFORMANCE/EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS: NONE

SUPPORTING COLLECTIVE TASKS: NONE

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: Company Headquarters
 Four Prime Power Platoon Headquarters
 Eight Prime Power Sections

TASK: Respond to a Chemical Attack (03-3-C203.05-T01A)
 (FM 3-4) (FM 3-11.11) (FM 3-3)
 (FM 3-5)

ITERATION: 1M 2M 3M 4M 5M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The unit is deployed in mission-oriented protective posture (MOPP) 2. Intelligence indicates that opposing forces (OPFOR) have initiated chemical warfare. The automatic alarm sounds or the detector paper changes color, causing the unit to react. This task is always performed in MOPP4.

TASK STANDARDS: The soldiers sound the alarm (vocal or nonvocal), immediately assume MOPP4, and use available shelter to prevent further exposure to contamination. The unit reacts to the chemical alarm within 9 seconds.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>* 1. Unit leaders ensure that soldiers react to the sound of the chemical-agent alarm or recognize the indicators of a chemical or biological attack.</p> <ul style="list-style-type: none"> a. Gave the alarm (vocal or nonvocal). b. Ensured that soldiers put on their protective masks within 9 seconds. c. Assumed MOPP4 as soon as possible. d. Sought additional shelter, if available. e. Administered a nerve agent antidote (buddy aid) to other soldiers with symptoms of nerve agent poisoning (if applicable). f. Administered nerve agent antidotes to selves (if applicable). g. Checked soldiers to ensure that protective measures were followed. <p>2. Soldiers take additional protective measures.</p> <ul style="list-style-type: none"> a. Protected exposed equipment and supplies. b. Monitored the area by testing it with detector kits. c. Applied prevention procedures, such as marking contaminated areas. <p>3. Soldiers conduct immediate decontamination.</p> <ul style="list-style-type: none"> a. Conducted skin decontamination. b. Wiped down personal equipment with M291 or M280 decontamination kits. c. Conducted operator spray down of equipment. <p>* 4. Unit leaders initiate unmasking procedures and report to higher headquarters (HQ).</p> <ul style="list-style-type: none"> a. Ensured that casualties were provided with medical care. b. Reported casualties. c. Submitted a nuclear, biological, and chemical (NBC) 1 report to higher HQ immediately. d. Continued the mission or requested movement to an alternate location. 		

TASK PERFORMANCE/EVALUATION SUMMARY BLOCK							
ITERATION	1M	2M	3M	4M	5M		TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS: NONE

SUPPORTING COLLECTIVE TASKS

Task Number	Task Title
12-1-0403.05-T01A	Report Casualties

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: Company Headquarters
Four Prime Power Platoon Headquarters
Eight Prime Power Sections

TASK: Prepare for a Friendly Nuclear Strike (03-3-C205.05-T01A)
(FM 3-4) (FM 3-3)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The unit receives a strike warning message from higher headquarters (HQ) directing specific actions to be implemented. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The unit completes preparations within 30 minutes of a friendly nuclear-strike warning. The time required to perform this task is increased when conducting it in mission-oriented protective posture (MOPP) 4.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
1. The designated radio operator acknowledges the strike warning message. <ul style="list-style-type: none"> a. Authenticated the call. b. Acknowledged the warning by returning the message. * 2. The unit leader issues a warning order. <ul style="list-style-type: none"> a. Warned subordinate and affected units. b. Ensured that subordinates executed actions as directed. 3. Soldiers complete actions before detonation occurs. <ul style="list-style-type: none"> a. Placed vehicles and equipment for the best terrain shielding (hill masses, slopes, culverts, depressions). b. Disconnected nonessential electronic equipment. c. Tied down essential antennas. d. Took down nonessential antennas and antenna leads. e. Improved shelters with consideration for blast, thermal, and radiation effects. NOTE: Add sandbags to shelters, foxholes, or tents in the direction of the strike. Cover openings or position them away from the strike. <ul style="list-style-type: none"> f. Zeroed dosimeters. g. Digital units ensured that the systems were prepared according to the unit tactical standing operating procedure (TACSOP). h. Secured loose, flammable, or explosive items and food or water containers to protect them from nuclear-weapons effects. 		

TASK PERFORMANCE/EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

ARTEP 5-617-11-MTP

SUPPORTING INDIVIDUAL TASKS: NONE

SUPPORTING COLLECTIVE TASKS: NONE

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: Company Headquarters
 Four Prime Power Platoon Headquarters
 Eight Prime Power Sections

TASK: Prepare for a Nuclear Attack (03-3-C206.05-T01A)
 (FM 3-4) (FM 3-11)

(FM 3-3)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The unit receives notice that a nuclear attack is probable and must initiate actions to minimize casualties and damage. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The unit hardens and shields positions and equipment and conducts periodic monitoring. The time required to perform this task is increased when conducting it in mission-oriented protective posture (MOPP) 4.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
* 1. The unit leader issues a warning order to subordinate units, ensuring that all soldiers understand the order. 2. The unit begins defensive preparation for a nuclear attack. <ol style="list-style-type: none"> Placed vehicles and equipment where the terrain shielding was best (hill masses, slopes, culverts, depressions). Turned off and disconnected nonessential electronic equipment according to the unit standing operating procedure (SOP). Tied down essential antennas. Took down nonessential antenna leads according to the unit SOP or other guidance. Improved shelters with consideration for blast, thermal, and radiation effects. Zeroed dosimeters. Secured loose, flammable, or explosive items and food or water containers to protect them from nuclear-weapons effects. Took cover in hardened shelters (if available). Used field-expedient shelters. 3. The unit takes additional actions consistent with the tactical situation. <ol style="list-style-type: none"> Continued periodic monitoring. Reported all dose rate and dosimeter readings to higher headquarters (HQ). 		

TASK PERFORMANCE/EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS: NONE

SUPPORTING COLLECTIVE TASKS

Task Number	Task Title
05-2-1218	Conduct Report Procedures

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: Company Headquarters
 Four Prime Power Platoon Headquarters
 Eight Prime Power Sections

TASK: Cross a Radiologically Contaminated Area (03-3-C208.05-T01A)
 (FM 3-3) (FM 3-11.11) (FM 3-4)

ITERATION: 1M 2M 3M 4M 5M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The unit receives orders to cross a radiologically contaminated area. The approximate boundaries of the area are known or marked. This task is always performed in MOPP4.

TASK STANDARDS: The unit crosses the contaminated area by the shortest, fastest route available without incurring radiation casualties or spreading contamination.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>* 1. Unit leaders prepare for the crossing.</p> <ul style="list-style-type: none"> a. Directed individuals to cover their noses and mouths with handkerchiefs or clean rags, roll their sleeves down, and wear gloves. b. Received operational-exposure guidance (OEG) from the commander (turn-back dose rate). c. Ensured that radiac equipment operators checked the instruments. <p>2. The unit prepares for the crossing.</p> <ul style="list-style-type: none"> a. Identified extra shielding requirements (for example, used sandbags on the vehicle floor). b. Placed externally stored equipment inside the vehicle or covered it with available material. c. Started continuous monitoring. <p>3. The unit crosses the area.</p> <ul style="list-style-type: none"> a. Avoided stirring up dust. b. Kept out of the dust cloud by increasing the intervals and distances between vehicles. c. Conducted movement as rapidly as possible (tracked vehicles should have been buttoned up). <p>4. The unit performs immediate decontamination of personnel and equipment.</p> <ul style="list-style-type: none"> a. Checked for casualties. b. Reported casualties. c. Conducted necessary decontamination. d. Evacuated casualties. e. Continued the mission. 		

TASK PERFORMANCE/EVALUATION SUMMARY BLOCK							
ITERATION	1M	2M	3M	4M	5M		TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS: NONE

SUPPORTING COLLECTIVE TASKS: NONE

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: Company Headquarters
 Four Prime Power Platoon Headquarters
 Eight Prime Power Sections

TASK: React to Smoke Operations (03-3-C209.05-T01A)
 (FM 3-50)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The unit encounters friendly or enemy smoke while conducting operations. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The unit exploits the threat smoke or employs friendly smoke to conceal its own activities and continues the mission. The time required to perform this task is increased when conducting it in mission-oriented protective posture (MOPP) 4.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ol style="list-style-type: none"> 1. The unit does not allow smoke to impede the performance of the mission. <ol style="list-style-type: none"> a. Performed its mission in the presence of smoke. b. Exploited threat smoke to conceal its own movements. c. Moved to alternate positions to reduce the effects of the threat use of smoke. d. Considered using countersmoke to conceal their own activities. 2. The unit employs organic smoke grenade launchers, smoke pots, and smoke hand grenades. <ol style="list-style-type: none"> a. Coordinated smoke operations with the unit commander or the supported unit. b. Determined the wind direction and speed. c. Determined where to release the smoke and where it would travel. d. Determined the duration of the smoke operations. e. Determined the effects of weather conditions on the smoke plan. f. Ensured that the smoke covered an area larger than the unit position. g. Requested smoke support from other units (if organic systems would not accomplish the task). 3. The unit uses target acquisition and guidance systems. <ol style="list-style-type: none"> a. Determined what available target acquisition and guidance systems were effective in the smoke. b. Requested and used target acquisition and guidance systems that were effective in the smoke. * 4. The noncommissioned officer in charge (NCOIC) requests a resupply of smoke munitions when required. <ol style="list-style-type: none"> a. Requested smoke grenades and smoke pots. b. Distributed smoke grenades and smoke pots. 		

TASK PERFORMANCE/EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS: NONE

SUPPORTING COLLECTIVE TASKS: NONE

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: Company Headquarters
Four Prime Power Platoon Headquarters
Eight Prime Power Sections

TASK: Respond to the Residual Effects of a Nuclear Attack (03-3-C222.05-T01A)
(FM 3-4) (FM 3-11.11) (FM 3-3)

ITERATION: 1M 2M 3M 4M 5M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The unit is located within a predicted fallout area. The mission does not allow movement from the predicted fallout area. This task is always performed in MOPP4.

TASK STANDARDS: The unit takes actions to minimize exposure to residual radiation.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ul style="list-style-type: none"> * 1. Unit leaders prepare the unit for fallout. <ul style="list-style-type: none"> a. Ensured that individuals covered their noses and mouths with handkerchiefs or clean rags, rolled their sleeves down, and wore gloves. b. Covered equipment; munitions; petroleum, oils, and lubricants (POL); and food and water containers or placed them inside shelters or vehicles. c. Used shelters, closed vehicles, or available shielding to protect personnel from fallout. d. Ensured that continuous monitoring was maintained using available nuclear, biological, and chemical (NBC) detection and identification equipment. 2. Designated personnel monitor fallout. <ul style="list-style-type: none"> a. Maintained total-dose information using available total-dose instruments. b. Ensured that exposure was minimized while the commander determined if relocation to a clean area was necessary or possible. c. Calculated the optimum time of exit. d. Sent NBC 4 reports to higher headquarters (HQ) using secure means when possible. * 3. The unit leader develops a contingency plan. <ul style="list-style-type: none"> a. Used guidance from higher HQ based on the mission and previous radiation exposure. b. Planned for rotation of individuals to minimize exposure. * 4. The unit leader submits reports according to unit standing operating procedure (SOP). 		

TASK PERFORMANCE/EVALUATION SUMMARY BLOCK							
ITERATION	1M	2M	3M	4M	5M		TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

ARTEP 5-617-11-MTP

SUPPORTING INDIVIDUAL TASKS: NONE

SUPPORTING COLLECTIVE TASKS: NONE

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: Company Headquarters
 Four Prime Power Platoon Headquarters
 Eight Prime Power Sections

TASK: Respond to the Initial Effects of a Nuclear Attack (03-3-C223.05-T01A)
 (FM 3-4) (FM 3-11.11) (FM 3-3)

ITERATION: 1M 2M 3M 4M 5M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: Soldiers observe a brilliant flash of light and/or a mushroom-shaped cloud. This task is always performed in MOPP4.

TASK STANDARDS: The unit takes action to minimize exposure to the initial effects of a nuclear detonation in its area and continues its mission.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
1. Soldiers take immediate protective actions in response to a nuclear attack. <ul style="list-style-type: none"> a. Without warning, soldiers— <ul style="list-style-type: none"> (1) Closed their eyes immediately. (2) Dropped to the ground in a prone position, with their head toward the blast (if in the hatch of an armored vehicle, immediately dropped down inside the vehicle). (3) Kept their heads and their faces down and helmets on. (4) Remained in a prone position until the blast wave passed and all debris stopped falling. b. With warning, soldiers— <ul style="list-style-type: none"> (1) Identified the best available shelter, such as fighting positions or inside shelters. (2) Moved to the shelter. (3) Took actions to protect themselves from the blast and radiation. (4) Kept clothing loosely fitted and their headgear on at all times. (5) Protected their eyes and minimized exposed skin areas. 		
* 2. Leaders reorganize the unit. <ul style="list-style-type: none"> a. Reestablished the chain of command. b. Reestablished communications. c. Submitted a nuclear, biological, and chemical (NBC) 1 report to higher headquarters (HQ). d. Treated casualties. e. Reported casualties. f. Evacuated casualties. g. Evaluated facilities for protection from residual radiation. h. Implemented continuous monitoring. i. Submitted a damage assessment to higher HQ. j. Initiated an area damage control plan, as required. k. Extinguished all fires. 		
* 3. Leaders ensure that weapon systems are operational.		
4. Soldiers right overturned vehicles. <ul style="list-style-type: none"> a. Checked for loss of coolant, fuel, and battery fluids. b. Performed operator maintenance to restore moderately damaged vehicles to combat use. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
5. Soldiers improve cover. <ul style="list-style-type: none"> a. Chose dense covering material. b. Covered in depth. c. Provided strong support. d. Covered as much of the opening as practical. 		

TASK PERFORMANCE/EVALUATION SUMMARY BLOCK							
ITERATION	1M	2M	3M	4M	5M		TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS: NONE

SUPPORTING COLLECTIVE TASKS: NONE

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: Company Headquarters
 Four Prime Power Platoon Headquarters
 Eight Prime Power Sections

TASK: Conduct Operational Decontamination (03-3-C224.05-T01A)
 (FM 3-5) (FM 3-11.11)

ITERATION: 1M 2M 3M 4M 5M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The unit is operating in a contaminated environment and/or is contaminated. Performance degradation from mission-oriented protective posture (MOPP) 4 is increasing, and protective gear is in danger of penetration by contamination. Time and the tactical situation permit the element to conduct operational decontamination. Replacement protective gear is available for each soldier. For a nonsupported decontamination, element decontamination equipment and supplies are available and operational. For a supported decontamination, a decontamination element is available, operational, and tasked to provide decontamination support. This task is always performed in MOPP4.

TASK STANDARDS: The unit decontaminates its individual gear and conducts MOPP gear exchange (using the buddy system) without sustaining additional casualties from nuclear, biological, and chemical (NBC) contamination. The unit limits the contamination transfer hazard by removing gross chemical contamination on equipment and minimizes contamination on soldiers according to Field Manual (FM) 3-5. The unit reduces radiological contamination to negligible risk levels according to FM 3-5 and reduces chemical and biological contamination to accelerate the weathering process and eventually provide temporary relief from MOPP4.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>* 1. The contaminated unit determines the extent of contamination and establishes decontamination priorities.</p> <ul style="list-style-type: none"> a. Received input from staff and subordinate leaders. b. Established decontamination priorities. <p>2. The contaminated unit submits a request for decontamination to higher headquarters (HQ). The request, as a minimum, included the—</p> <ul style="list-style-type: none"> a. Contaminated element designation. b. Contaminated element location. c. Contaminated element frequency and call sign. d. Time that the element became contaminated. e. Number of vehicles and equipment, by type, that were contaminated. f. Type of contamination. g. Special requirements (such as a patient decontamination station, recovery assets, and a element decontamination team). <p>* 3. The contaminated unit leader coordinates with higher HQ.</p> <ul style="list-style-type: none"> a. Obtained permission to conduct decontamination and obtain the necessary support. b. Selected a linkup point to meet supporting units (a company supply section, a company or battalion power-driven decontamination equipment [PDDE] crew, or a decontamination squad or platoon). c. Coordinated with supporting units. d. Requested replacement MOPP gear. e. Coordinated with supporting units to determine if they would also conduct a MOPP gear exchange. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>* 4. The contaminated unit leader and NBC specialist select a site to conduct the operation, ensuring that the site selected—</p> <ul style="list-style-type: none"> a. Provided adequate overhead concealment. b. Provided good drainage. c. Provided easy access and exit (but off the main routes). d. Provided the proximity to a water source large enough to support vehicle wash down. e. Provided an area large enough to accommodate units involved in the operational decontamination (100 square meters for both the vehicle washdown site and the MOPP gear exchange site). <p>5. The contaminated unit coordinates for operational decontamination support (a company or battalion PDDE crew or a decontamination unit).</p> <ul style="list-style-type: none"> a. Requested operational decontamination support. b. Notified higher HQ of the area for the operational decontamination. c. Established communications with the decontamination element. d. Ensured that the decontamination element knew the locations of the linkup and the selected decontamination sites. <p>6. The contaminated element and supporting elements move to the decontamination site.</p> <ul style="list-style-type: none"> a. Met at the linkup point as coordinated. b. Provided security at both the linkup point and the decontamination site by the contaminated element. <p>7. The elements prepare for operational decontamination.</p> <ul style="list-style-type: none"> a. Set up the decontamination site. <ul style="list-style-type: none"> (1) The supporting decontamination element crew set up the vehicle washdown site. (2) The contaminated unit set up the MOPP gear exchange site not less than 50 meters upwind of the vehicle washdown site. (3) The remainder of the element prepared its equipment for decontamination. b. Conducted preparatory actions in the predecontamination area. <ul style="list-style-type: none"> (1) Vehicle crews (except for the operators) dismounted unless they had an operational overpressure system and an uncontaminated interior. (2) Dismounted crews removed mud and camouflage from the vehicles. <p>NOTE: The contaminated element provides personnel to do this when the crews do not dismount.</p> <ul style="list-style-type: none"> (3) Separated vehicles and dismounted crews. <ul style="list-style-type: none"> (a) Ensured that vehicle operators were briefed (included the use of overhead cover and concealment and the proper intervals). (b) Ensured that vehicles were buttoned up; for example, all doors, hatches, and other openings were closed or covered. (4) Moved vehicles (with operators) to the vehicle washdown site. (5) Moved dismounted crews and all other soldiers in the contaminated unit to the MOPP gear exchange site. <p>* 8. The noncommissioned officer in charge (NCOIC) of the decontamination element supervises the operation of the vehicle washdown site, ensuring that vehicle operators—</p> <ul style="list-style-type: none"> a. Maintained the proper interval between vehicles while processing through the washdown station. b. Washed vehicles. <ul style="list-style-type: none"> (1) Started at the top and worked down. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>(2) Sprayed hot, soapy water for 2 to 3 minutes per vehicle. (3) Monitored water consumption. c. Moved to the assembly area (AA) after the vehicle wash down. d. Moved to the MOPP gear exchange site and conducted MOPP gear exchange.</p> <p>9. The contaminated element conducts MOPP gear exchange. a. Prepared the equipment decontamination station (with supertropical bleach [STB] dry mix). b. Briefed MOPP gear exchange participants on procedures to be followed. c. Placed the decontaminated individual equipment on a clean surface (such as plastic, a poncho, or similar material). d. Exchanged MOPP gear using the buddy system. e. Moved soldiers to the AA after completing MOPP gear exchange.</p> <p>NOTES: 1. Ensure that the supporting units have the opportunity to use the MOPP gear exchange site before proceeding. 2. The supporting decontamination element cleans and marks the site and reports the area of contamination (using an NBC 4 report) to higher HQ.</p> <p>*10. Element leaders account for all personnel and equipment after completing the operational decontamination.</p> <p>*11. The contaminated element leader reports to higher HQ. a. Reported the completion and location of the vehicle washdown and MOPP gear exchange decontamination sites. b. Requested permission to perform unmasking procedures if, through testing, no hazards were detected. c. Determined the adequacy of decontamination and adjusted the MOPP level (after obtaining approval from higher HQ).</p> <p>12. The contaminated element continues the mission.</p>		

TASK PERFORMANCE/EVALUATION SUMMARY BLOCK							
ITERATION	1M	2M	3M	4M	5M		TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS: NONE

SUPPORTING COLLECTIVE TASKS: NONE

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: Company Headquarters
 Four Prime Power Platoon Headquarters
 Eight Prime Power Sections

TASK: Cross a Chemically Contaminated Area (03-3-C226.05-T01A)
 (FM 3-3)

ITERATION: 1M 2M 3M 4M 5M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The unit is en route to a new location on a designated route. The unit cannot move off that route and still complete its assigned mission. The unit discovers contamination on the route and is directed to cross the contaminated area. This task is always performed in MOPP4.

TASK STANDARDS: The unit crosses the contaminated area without suffering chemical-agent casualties.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>* 1. The unit leader selects a route across the contaminated area.</p> <ul style="list-style-type: none"> a. Employed a nuclear, biological, and chemical (NBC) 5 (chemical) report and/or reconnaissance reports to select a route. b. Selected a route that minimized exposure consistent with the mission. c. Obtained a route clearance and approval. <p>2. The unit prepares to cross the area.</p> <ul style="list-style-type: none"> a. Assumed mission-oriented protective posture (MOPP) 4 for crossing the area. b. Ensured that all drivers, vehicle commanders, and leaders knew the march route or had strip maps. c. Ensured that all vehicles were buttoned up (mounted movement). d. Placed externally stored equipment inside the vehicle or covered it with available material. e. Attached M9 detector paper to soldiers and vehicles to provide warning of contamination. <p>3. The unit crosses the area.</p> <ul style="list-style-type: none"> a. Avoided low ground, overhanging branches, and brush to the extent allowed by the tactical situation. b. Conducted dismounted movement, if necessary, as rapidly as possible. c. Crossed the area as quickly and carefully as possible. <p>4. The unit exits the contaminated area.</p> <ul style="list-style-type: none"> a. Checked for casualties. b. Reported casualties. c. Conducted necessary decontamination. d. Continued the mission. 		

TASK PERFORMANCE/EVALUATION SUMMARY BLOCK							
ITERATION	1M	2M	3M	4M	5M		TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS: NONE

SUPPORTING COLLECTIVE TASKS

Task Number	Task Title
12-1-0403.05-T01A	Report Casualties

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: Company Headquarters
Four Prime Power Platoon Headquarters
Eight Prime Power Sections

TASK: Defend a Convoy Against a Ground Attack (05-2-0911)
(FM 55-30) (FM 21-75) (FM 24-19)
(FM 24-35) (FM 24-35-1) (FM 3-90.1)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: In a contemporary operating environment the unit is conducting a convoy. The operation order (OPORD) and the rules of engagement (ROE) provide guidance for the mission and actions to take upon contact. The enemy squad- to platoon-size force attacks the main body of the convoy. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The convoy protects itself and attacks or disengages from the enemy. The convoy minimizes casualties or damage by taking immediate action. Digital units send and receive orders and reports using frequency-modulated (FM) or digital means to conduct combat operations. The time required to perform this task is increased when conducting it in mission-oriented protective posture (MOPP) 4.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>* 1. The element leader prepares for combat operations.</p> <p>NOTE: Digital units set stale settings to provide current friendly and enemy unit locations.</p> <ul style="list-style-type: none"> a. Designated and positioned the security elements throughout the convoy (front, rear, and flank). b. Established radio communications with security elements. c. Designated actions upon enemy contact (action front, left, right, or rear; air attack; or indirect fire). d. Assigned each armed vehicle a sector of fire for the movement, and ensured that the convoy had 360° coverage while moving. e. Designated en route rally points and the actions to be taken at those points. f. Coordinated with the battalion Operations and Training Officer (US Army) (S3) for indirect fire along the planned route. g. Received an update from the battalion Intelligence Officer (US Army) (S2) on probable enemy actions influencing the convoy route or the mission. <p>NOTE: Digital units receive updated intelligence information through the Force XXI Command Brigade and Below (FBCB2) System or the Maneuver Control System (MCS).</p> <p>2. The element prepares for combat operations.</p> <ul style="list-style-type: none"> a. Loaded vehicles, stowed or tied down all loose equipment, and ensured that there was enough space to bring weapons to bear. <p>NOTE: Air guards are present.</p> <ul style="list-style-type: none"> b. Ensured that weapons were functional and had their basic load of ammunition. c. Rehearsed the procedures for enemy contact before the start point (SP). d. Ensured that each vehicle commander knew the route and all standing operating procedures (SOPs). <p>3. The convoy reacts to enemy contact.</p>		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ul style="list-style-type: none"> a. Scanned the area for the enemy and returned fire at identified enemy positions. b. Sought available cover. c. Maneuvered vehicles to allow the gunner to engage the enemy and moved all unarmed vehicles to cover. d. Provided suppressive gunnery fire on the enemy. e. Deployed the security teams and reported the situation to the element leader. <p>* 4. The element leader develops the situation.</p> <ul style="list-style-type: none"> a. Initiated fire and maneuver. b. Requested indirect-fire support. c. Sought information on the enemy strength, composition, and disposition. d. Evaluated the direction and volume of the enemy fire, confirmed or suspected enemy positions, and the terrain capacity for the masking forces. <p>* 5. The element leader selects a course of action based on mission, enemy, terrain, troops, time available, and civilian considerations (METT-TC) and the developing situation.</p> <ul style="list-style-type: none"> a. Maneuvered to attack the enemy flank. b. Conducted a frontal assault. c. Broke contact and moved away from the enemy position by fire and maneuver. <p>6. The security element engages the enemy (within capabilities).</p> <p>* 7. The element leader reports the tactical situation to higher headquarters (HQ).</p> <p>8. The element reorganizes and resumes its convoy.</p> <ul style="list-style-type: none"> a. Reconstituted the security force. b. Treated and evacuated casualties. c. Reported casualties. d. Redistributed ammunition and equipment. e. Recovered any damaged equipment or destroyed it in place. 		

TASK PERFORMANCE/EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

Task Number	Task Title
052-194-3500	Conduct a Patrol
071-326-5505	Issue an Oral Operation Order
071-326-5605	Control Movement of a Fire Team
071-326-5611	Conduct the Maneuver of a Squad

SUPPORTING COLLECTIVE TASKS

Task Number	Task Title
07-2-1301.05-T01A	Conduct a Convoy
07-3-1112.05-T01A	React to an Ambush
10-2-0318.05-T01A	Perform Unit Graves Registration (GRREG) Operations

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: Company Headquarters
Four Prime Power Platoon Headquarters
Eight Prime Power Sections

TASK: React to Unexploded Ordnance (UXO) (09-2-0337.05-T01A)
(FM 21-16)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: During combat operations, the unit encounters a UXO hazard. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The element reacts to the UXO hazard while continuing the mission, without loss of personnel or equipment. The time required to perform this task is increased when conducting it in mission-oriented protective posture (MOPP) 4.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
1. The element recognizes the UXO hazard. <ul style="list-style-type: none"> a. Identified the UXO by type. b. Identified the UXO by subgroup. c. Observed all safety precautions. * 2. The element leader takes immediate action for the UXO hazard. <ul style="list-style-type: none"> a. Evacuated the area as appropriate. b. Determined the appropriate action. <ul style="list-style-type: none"> (1) Avoided the UXO hazard. (2) Instituted protective measures. * 3. The element leader designates the element to mark the area. <ul style="list-style-type: none"> a. Chose leaders to mark the area. b. Briefed leaders on the area to be marked. * 4. The element marks the UXO hazard. <ul style="list-style-type: none"> a. Marked all the logical approach routes. b. Ensured that the UXO was visible from all markers. * 5. The element reports the UXO hazard. <ul style="list-style-type: none"> a. Initiated the UXO spot report. b. Determined the priority based on the current situation. c. Forwarded the report to the next higher headquarters (HQ) by the fastest means available. 		

TASK PERFORMANCE/EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS: NONE

SUPPORTING COLLECTIVE TASKS

Task Number	Task Title
05-2-1218	Conduct Report Procedures

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: Company Headquarters
 Four Prime Power Platoon Headquarters
 Eight Prime Power Sections

TASK: Employ Physical Security Measures (19-3-2204.05-T01A)
 (FM 3-19.30) (FM 3-19.4)

ITERATION: 1 2 3 4 5 (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: An opposing forces (OPFOR) squad-size patrol attempts reconnaissance or intrusion into the command post (CP) perimeter. This task should not be trained in MOPP4.

TASK STANDARDS: The element maintains 24-hour security in its assigned sector and is not surprised by the OPFOR.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
* 1. The element leader prepares a physical security plan. <ul style="list-style-type: none"> a. Controlled the entry of vehicles into the CP. b. Developed procedures for selecting and manning perimeter positions. c. Developed procedures for detecting and reporting OPFOR intrusion or observation of the CP perimeter. d. Controlled access to the element defensive areas. e. Established communications links between observation posts (OPs) and the reaction force. f. Developed procedures for initial response to ground attacks. 2. The element operates a guard force. <ul style="list-style-type: none"> a. Established communications with the guard commander. b. Stopped unauthorized entry into restricted areas. c. Conducted random exterior patrols to find and neutralize OPFOR intruders before they breached the CP perimeter. 3. The element reacts to an OPFOR ground attack. <ul style="list-style-type: none"> a. Assumed preplanned positions. b. Denied intrusion into the CP perimeter. 		

TASK PERFORMANCE/EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5		TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS: NONE

ARTEP 5-617-11-MTP

SUPPORTING COLLECTIVE TASKS: NONE

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: Company Headquarters
 Four Prime Power Platoon Headquarters
 Eight Prime Power Sections

TASK: Use Passive Air Defense Measures (44-1-C220.05-T01A)
 (FM 44-100) (FM 44-64) (FM 44-8)
 (FM 44-80)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The element is in a tactical position. Hostile aerial platforms (rotary-wing, fixed-wing, or unmanned aerial vehicles [UAVs]) have been operating in the general area. The element weapon control status (WCS) is weapons hold. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The opposing forces (OPFOR) element aerial platforms (rotary-wing, fixed-wing, and UAVs) do not detect the unit. The time required to perform this task is increased when conducting it in mission-oriented protective posture (MOPP) 4.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>* 1. The element leader uses passive air defense measures in a tactical position.</p> <ul style="list-style-type: none"> a. Used all available resources (camouflage, cover, concealment, and dispersion) to hide personnel and equipment to limit vulnerability. <p>NOTE: The unit achieves air situational awareness (SA) by monitoring with simplified handheld terminal units (SHTUs).</p> <ul style="list-style-type: none"> b. Covered or shaded any shiny items, particularly windshields and optics. c. Established and rehearsed the air attack alarms. d. Dispersed vehicles, tents, and supplies to reduce vulnerability to an air attack. e. Constructed field fortifications with organic equipment as necessary to protect personnel and vulnerable mission-essential equipment. f. Manned observation posts (OPs), daytime or nighttime, to provide warning of approaching aerial platforms. g. Established a listening watch on the air defense early warning net, if the equipment was available and operational. <p>* 2. The element leader uses passive air defense measures in a convoy.</p> <ul style="list-style-type: none"> a. Ensured that all personnel received the convoy commander's briefing. b. Camouflaged vehicles and equipment before moving out. c. Selected a column interval based on instructions, the mission, and the terrain. d. Placed crew-served weapons throughout the convoy to cover the avenues of approach (front, rear, and flank). e. Assigned soldiers to air guard duties with specific search sectors covering 360°. f. Identified threat aerial platforms visually. g. Reported all aircraft actions to the higher headquarters (HQ). h. Established and rehearsed the air attack alarms. <p>3. Element personnel use passive air defense measures when occupying or displacing a position.</p> <ul style="list-style-type: none"> a. Maintained the vehicle interval specified in the movement order. b. Staggered vehicles to avoid linear patterns. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
c. Assigned air guards to the sectors of search that covered 360°, and maintained the coverage until the convoy completed the movement. d. Identified threat aerial platforms visually. e. Reported all aircraft actions to higher HQ. f. Established the vehicle order of precedence.		

TASK PERFORMANCE/EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS: NONE

SUPPORTING COLLECTIVE TASKS: NONE

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: Company Headquarters
Four Prime Power Platoon Headquarters
Eight Prime Power Sections

TASK: Take Active Combined Arms Air Defense Measures Against Hostile Aerial Platforms (44-1-C221.05-T01A)

(FM 44-100)
(FM 44-80)

(FM 44-64)

(FM 44-8)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The element receives an early warning of aerial platforms (rotary-wing, fixed-wing, or unmanned aerial vehicles [UAVs]) in the area. Unit personnel detect unknown or hostile aerial platforms. The element is in a tactical position. The weapon control status (WCS) is weapons tight. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The element destroys or forces attacking aerial platforms away from friendly positions. The time required to perform this task is increased when conducting it in mission-oriented protective posture (MOPP) 4.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>* 1. Leaders direct combined arms air defense measures against the hostile aerial platforms not attacking a stationary unit.</p> <ol style="list-style-type: none"> Gave the air attack alarm. Organized the element to defensive positions. Ordered a search of the assigned sectors for aerial platforms. Identified and reported the presence of aerial platforms in the area and sent priority intelligence requirements (PIR) to higher headquarters (HQ). <p>NOTE: When making the decision of whether or not to fire at nonattacking hostile aerial platforms with small arms, consider the assigned mission and the tactical situation. The element must positively and visually identify aerial platforms before engaging with small arms, unless the aircraft is committing a hostile act.</p> <p>DANGER: MUNITIONS CANNOT DISTINGUISH BETWEEN FRIEND AND FOE. REVIEW ALL AIRSPACE CONTROL MEASURES. PERFORM ALL PRECAUTIONARY MEASURES TO ENSURE THAT THE MUNITIONS FIRED DO NOT CAUSE INJURY OR DEATH TO FRIENDLY FORCES OR DAMAGE TO ALLIED EQUIPMENT. EVEN COMPUTERIZED SYSTEMS REQUIRE CLOSE OBSERVATION.</p> <ol style="list-style-type: none"> Made the engagement decision. Engaged the element in attacking the aerial platforms with all available small arms, such as rifles and machine guns. <p>NOTE: Expect the firing signature from small arms to disclose the element position.</p> <ol style="list-style-type: none"> Performed all precautionary measures to ensure that no fratricide occurred during the engagement. Directed soldiers to reload weapons following the engagement. Sent the PIR to higher HQ. 		

TASK STEPS AND PERFORMANCE MEASURES			GO	NO-GO														
<p>NOTES:</p> <p>1. Aim points for propeller-driven aircraft are the same as for helicopters.</p> <p>2. Select the aim points in football field lengths: one football field equals about 91 meters.</p> <p>3. Once the lead distance is estimated, the riflemen and machine gunners aim and fire their weapons at the aim point until the aircraft has flown past that point. Maintain the aim point, not the lead distance. The weapon should not move once the firing cycle starts.</p> <p>4. Establish preselected aim points when the unit is in a static position.</p> <p>5. Accuracy in relation to target hits is not necessary. Accuracy in relation to the aim point is necessary. Volume fire (a coordinated, high volume of fire that the aircraft has to fly through) will achieve the desired results.</p> <p>TYPE OF AERIAL PLATFORMS</p> <table><tr><th>COURSE</th><th>AIM POINT</th></tr><tr><td>Jet/cruise missile Crossing</td><td>Two football fields in front of the aerial platform nose</td></tr><tr><td>Jet/cruise missile Overhead</td><td>Two football fields in front of the aerial platform nose</td></tr><tr><td>Jet/cruise missile Directly at you</td><td>Slightly above the aerial platform nose</td></tr><tr><td>Helicopter/UAV Crossing</td><td>One-half football field in front of the aerial platform nose</td></tr><tr><td>Helicopter/UAV Directly at you</td><td>Slightly above the helicopter/UAV body</td></tr><tr><td>Helicopter/UAV Hovering</td><td>Slightly above the helicopter/UAV body</td></tr></table> <p>j. Evaluated the situation and moved the unit position as directed by the unit commander.</p> <p>* 2. Leaders direct small arms air defense measures against hostile aerial platforms not attacking a moving target.</p> <ul style="list-style-type: none">a. Gave the air attack alarm.b. Dispersed vehicles laterally and in-depth or had the vehicle operators continue to move the unit.c. Moved vehicles to covered and concealed positions. All personnel not assigned crew-served weapons dismounted and prepared to engage the aircraft or increased dispersion.d. Engaged nonattacking aircraft only as directed.e. Identified threat aerial platforms visually.f. Reported all aerial platform actions to higher HQ.g. Prepared the element to engage on orders of the senior leader.h. Engaged the element (when ordered to do so by the senior leader) in attacking the aerial platforms with all available small arms.i. Directed soldiers to reload weapons following the engagement. <p>* 3. Leaders direct combined arms air defense measures against aerial platforms attacking a stationary unit.</p> <ul style="list-style-type: none">a. Gave the air attack alarm.b. Engaged all available personnel immediately in attacking the aerial platforms per the tactical standing operating procedure (TACSOP).c. Directed soldiers to reload weapons following the engagement.d. Ensured that soldiers assigned to observation posts (OPs) continued to scan their assigned sectors.e. Reported any aircraft action to higher HQ.			COURSE	AIM POINT	Jet/cruise missile Crossing	Two football fields in front of the aerial platform nose	Jet/cruise missile Overhead	Two football fields in front of the aerial platform nose	Jet/cruise missile Directly at you	Slightly above the aerial platform nose	Helicopter/UAV Crossing	One-half football field in front of the aerial platform nose	Helicopter/UAV Directly at you	Slightly above the helicopter/UAV body	Helicopter/UAV Hovering	Slightly above the helicopter/UAV body		
COURSE	AIM POINT																	
Jet/cruise missile Crossing	Two football fields in front of the aerial platform nose																	
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Helicopter/UAV Directly at you	Slightly above the helicopter/UAV body																	
Helicopter/UAV Hovering	Slightly above the helicopter/UAV body																	

TASK STEPS AND PERFORMANCE MEASURES		GO	NO-GO
f. Reported any casualties to higher HQ. g. Evaluated the situation and moved the element position as directed by the tactical situation or the TACSOP. * 4. The element leader or noncommissioned officers (NCOs) direct small arms air defense measures during the convoy movement. a. Alerted vehicle commanders of an impending attack. b. Dispersed vehicles alternately to the shoulders of the road or off the road if possible. Turned to covered and concealed positions, if the terrain permitted. c. Maintained vehicle intervals or increased the interval or dispersion by using evasive driving techniques. d. Ordered the element to dismount and take up firing positions. e. Prepared personnel to fire on the orders of the senior individual present or automatically returned fire (per engagement procedures) if an aircraft was attacking. f. Identified aerial platforms. g. Engaged the element in attacking aerial platforms with all available small arms, such as rifles and machine guns. h. Directed soldiers to reload weapons following the engagement. i. Reported the attack and submitted the PIR to higher HQ. j. Reported any casualties to higher HQ.			

TASK PERFORMANCE/EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS: NONE

SUPPORTING COLLECTIVE TASKS: NONE

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: Company
 Company Headquarters
 Four Prime Power Platoon Headquarters
 Eight Prime Power Sections

TASK: Perform Risk Management Procedures (71-2-0326.05-T01A)
 (AR 385-10) (FM 3-0) (FM 7-0)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The element is deployed, performing its combat mission. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: Leaders and soldiers are aware of potential safety problems when conducting the task. The element trains to standard and does not take shortcuts that endanger element members. All risks taken are necessary to accomplish the training objectives. Appropriate measures are taken to minimize risks. The time required to perform this task is increased when conducting it in mission-oriented protective posture (MOPP) 4.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>* 1. The commander identifies the risk or safety hazards.</p> <ul style="list-style-type: none"> a. Analyzed the operation plan (OPLAN), the fragmentary order (FRAGO), and the operation order (OPORD) for specified and implied missions (tasks). b. Integrated safety into every phase of the planning process. c. Assessed the risks before issuing a FRAGO when the mission or conditions changed. <p>* 2. Leaders evaluate the risk or safety hazards identified in the operation.</p> <ul style="list-style-type: none"> a. Compared the risk to the acceptable level of risk in the commander's intent, based on the stated training objective. b. Determined the likelihood of equipment and personnel losses from accidents. c. Described the operation in terms of high, medium, or low risk. d. Prepared courses of action (COAs) that minimized accidental losses. <p>* 3. The commander (or leaders) eliminates or reduces the risk or safety hazards.</p> <ul style="list-style-type: none"> a. Chose a COA that maximized the operation and minimized the risk. b. Developed procedures that reduced the risk or safety hazards. c. Prescribed the safety or protective equipment. d. Briefed the elements before all operations. <p>4. The element carries out safety procedures.</p> <ul style="list-style-type: none"> a. Received safety briefings before all operations. b. Practiced the safety procedures during all mission rehearsals. c. Made on-spot safety corrections. <p>NOTES:</p> <p>1. Safety is a part of realism, and realism includes building safety into the training so that safe practices, which eliminate accidents, become second nature during war (refer to Field Manual [FM] 7-0).</p> <p>2. FM 3-0 emphasizes the need for boldness and that commanders must take "risks and tenaciously press soldiers and systems" as an imperative of the battle. However, such an imperative is founded on the premise that protecting</p>		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
the force to the maximum extent possible ensures winning the battle. Risk is an expression of possible loss over a specific period of time or number of operational cycles as defined by the Center for Army Safety.		

TASK PERFORMANCE/EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS: NONE

SUPPORTING COLLECTIVE TASKS: NONE

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: Eight Prime Power Sections
Four Prime Power Platoon Headquarters

TASK: Install Nonstandard Low-Voltage, Electrical-Power Distribution Equipment (05-3-5700)
(FM 5-422) (FM 5-125) (FM 5-34)
(TB 43-0142) (TM 43-0156) (TM 5-6115-456-15)
(TM 5-6120-250-12) (TM 9-6115-604-12)

ITERATION: 1 2 3 4 5 (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The element receives a mission to install a nonstandard low-voltage, electrical-power distribution system. This task should not be trained in MOPP4.

TASK STANDARDS: The element installs the distribution system consistent with the mission requirements, the system design criteria, and approved procedures for installing nonstandard low-voltage distribution systems and equipment.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
1. The element establishes job site security. * 2. The element leader performs construction management functions. a. Coordinated with the interior electricians to determine the proper size of the service panel. b. Prepared the bill of materials (BOMs) for the project. c. Prepared the critical path method (CPM) diagram for the project. d. Ensured that construction materials were available. e. Assembled work crews and assigned their responsibilities. f. Coordinated nonorganic construction support requirements. * 3. The element leader conducts a work project safety briefing. a. Identified the requirements for wearing proper safety equipment and clothing. b. Identified the requirements for using ground guides for vehicles and materials-handling equipment. c. Identified the requirements for using the correct hand-and-arm signals to communicate boom, hook, or fork movement for materials-handling equipment. d. Identified safe clearance requirements. 4. The element performs an equipment safety inspection. a. Inspected individual safety and protective equipment for serviceability. b. Inspected cable-handling and-laying equipment for serviceability. c. Inspected rigging equipment for serviceability. 5. The element verifies the cable routing plan to ensure that it avoids high-traffic areas. 6. The element installs the distribution system. a. Ensured that distribution panels were properly placed according to the distribution plan and out of high-traffic areas. b. Ensured that distribution panels were properly mounted and grounded. 7. The electrical distribution crew installs low voltage power distribution equipment.		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>a. Ensured that the low-voltage power distribution equipment was capable of bearing the weight of the distribution panels.</p> <p>b. Located a suitable location for the type of distribution panels being mounted.</p> <p>NOTE: Panels should be rated for the type of location being mounted.</p> <p>(1) Constructed a suitable mounting place for the distribution panels being mounted if there was not a suitable mounting place in or on the existing structure.</p> <p>(2) Cleared the site of brush, large rocks, and other items that might interfere with the operation, maintenance, or stability of the unit.</p> <p>(3) Ensured that the area was free from potential floods or washout from rains.</p> <p>(4) Noted the access to panels.</p> <p>NOTE: To minimize heat loads on distribution panels, locate panels in shaded areas, use existing terrain features, or build a structure to provide shade.</p> <p>8. The electrical distribution crew installs surface-laid low-voltage distribution system cables.</p> <p>a. Selected the proper size feeder cable for the distribution panels.</p> <p>b. Laid out the power cables.</p> <p>c. Ensured that the distribution transformer or feeder circuit is deenergized.</p> <p>d. Connected the power cable into the feeder circuit or distribution transformer.</p> <p>NOTE: Protective barriers are necessary to protect the safety of personnel and power sources.</p> <p>DANGER: SAFETY BARRIERS MUST BE USED BEFORE ENERGIZING THE GRID.</p> <p>9. The electrical distribution crew installs protective barriers as necessary.</p> <p>*10. The element leader performs the distribution system postinstallation inspection.</p> <p>11. The electrical distribution crew performs starting operations checks on the distribution panels.</p> <p>a. Ensured that all cables were properly connected and that all circuit breakers in the distribution panels were set to OFF.</p> <p>b. Energized the appropriate distribution transformer or set the feeder circuit breaker to ON.</p> <p>c. Applied power to a load and set the appropriate circuit breaker to ON.</p> <p>d. Verified the correct voltage and phase rotation at the distribution panels.</p> <p>12. The element prepares or updates a low-voltage distribution system as a built diagram.</p> <p>*13. The element leader prepares an after-action report and conducts a briefing according to the unit standing operating procedure (SOP).</p>		

TASK PERFORMANCE/EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5		TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS: NONE

SUPPORTING COLLECTIVE TASKS

Task Number	Task Title
05-1-3006	Establish Job Site Security
05-2-1218	Conduct Report Procedures

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: Four Prime Power Platoon Headquarters
Eight Prime Power Sections

TASK: Install Low-Voltage, Electrical-Power Distribution Equipment (05-3-5701)
(FM 5-422) (FM 5-125) (FM 5-34)
(TB 43-0142) (TM 43-0156) (TM 5-6115-456-15)
(TM 5-6120-250-12) (TM 9-6115-604-12)

ITERATION: 1 2 3 4 5 (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The element is in a contemporary operating environment and receives a mission to install a low-voltage electrical-power distribution system. This task should not be trained in MOPP4.

TASK STANDARDS: The element installs the distribution system in a manner consistent with the mission requirements, the system design criteria, and approved procedures for installing low-voltage distribution systems and equipment.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
1. The element establishes job site security. * 2. The element leader performs construction management functions. a. Prepared a bill of materials (BOMs) for the project. b. Prepared a critical path method (CPM) diagram for the project. c. Ensured that construction materials were available. d. Assembled work crews and assigned responsibilities. e. Coordinated nonorganic construction support requirements. * 3. The element leader conducts a work project safety briefing. a. Included the requirements for wearing proper safety equipment and clothing. b. Included the requirements for using ground guides for vehicles and materials-handling equipment. c. Included the requirements for using the correct hand-and-arm signals to communicate boom, hook, or fork movement for materials-handling equipment. d. Included safe clearance requirements. 4. The element performs an equipment safety inspection. a. Inspected individual safety and protective equipment for serviceability. b. Inspected cable-handling and-laying equipment for serviceability. c. Inspected rigging equipment for serviceability. 5. The element verifies that the cable routing is clearly marked and ensures that it avoids high-traffic areas. a. Ensured that the power distribution panels (PDPs) were grounded. b. Ensured that the ground was tested and that it met application specifications. 6. The electrical distribution crew installs low-voltage power distribution equipment. a. Located a level surface capable of bearing the weight of the PDP. b. Cleared the site of brush, large rocks, and other items that might interfere with the operation, maintenance, or stability of the unit. c. Ensured that the area was free from potential floods or washout from rains. d. Noted access to all removable outside panels.		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ul style="list-style-type: none"> e. Made use of terrain features to minimize heat loads on the PDP by placing the unit in shady areas. f. Ensured that PDPs were placed according to the distribution plan and out of high-traffic areas. g. Ensured that PDPs were grounded. <p>7. The distribution electrical crew installs surface-laid low-voltage distribution system cables.</p> <ul style="list-style-type: none"> a. Selected the proper size cable for the PDP b. Laid out the power cables. c. Ensured that all system distribution cables (SDCs) feeder circuit breakers were in the OFF position. d. Connected the power cable into the SDC. <p>NOTE: Protective barriers are used to protect personnel and the power source. DANGER: PROTECTIVE BARRIERS MUST BE USED PRIOR TO ENERGIZING THE GRID.</p> <p>8. The electrical distribution crew installs protective barriers, as necessary.</p> <p>9. The element performs an after installation inspection of the distribution system.</p> <p>10. The electrical distribution crew performs starting operations checks on the PDPs.</p> <ul style="list-style-type: none"> a. Ensured that all cables were connected and that all circuit breakers in the PDP were set to OFF. b. Set the appropriate feeder circuit breaker in the SDC to ON. c. Set the main circuit breaker (CB1) to ON. d. Applied power to a load. <ul style="list-style-type: none"> (1) Set the appropriate circuit breaker to the ON position. (2) Ensured that the loads were balanced. <p>*11. The element leader.</p> <ul style="list-style-type: none"> a. Inspected the completed distribution system. b. Prepared or updated a low-voltage distribution system as a built diagram. <p>*12. The element leader prepares an after-action report and conducts a briefing according to the unit standing operating procedure (SOP).</p>		

TASK PERFORMANCE/EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5		TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS: NONE

SUPPORTING COLLECTIVE TASKS

Task Number	Task Title
05-1-3006	Establish Job Site Security
05-2-1218	Conduct Report Procedures

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: Eight Prime Power Sections
Four Prime Power Platoon Headquarters

TASK: Install Underground Electrical-Power Distribution Equipment (05-3-5702)
 (FM 5-422) (FM 5-125) (FM 5-34)
 (TB 43-0142) (TM 43-0156) (TM 5-6115-456-15)
 (TM 5-6120-250-12) (TM 9-6115-604-12)

ITERATION: 1 2 3 4 5 (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The element receives a mission to install underground electrical-power distribution equipment. This task should not be trained in MOPP4.

TASK STANDARDS: The element installs the distribution system in a manner consistent with the mission requirements, the system design criteria, and the approved procedures for installing underground distribution systems and equipment.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
1. The element establishes job site security. * 2. The element leader performs construction management functions. a. Prepared a bill of materials (BOMs) for the project. b. Prepared a critical path method (CPM) diagram for the project. c. Ensured that construction materials were available. d. Assembled work crews and assigned their responsibilities. e. Coordinated nonorganic construction support requirements. * 3. The element leader conducts a work project safety briefing. a. Identified the requirements for wearing the proper safety equipment and clothing. b. Identified the requirements for using ground guides for vehicles and materials-handling equipment. c. Identified the requirements for using the correct hand-and-arm signals to communicate boom, hook, or fork movement for materials-handling equipment. d. Identified the requirements for safe clearance procedures. 4. The element performs an equipment safety inspection. a. Inspected individual safety and protective equipment for serviceability. b. Inspected cable-handling and-laying equipment for serviceability. c. Inspected rigging equipment for serviceability. d. Tested existing manholes for air quality. 5. The element verifies the cable right-of-way selection. 6. The element performs a preinstallation inspection and a test of system electrical equipment. 7. The element prestages materials and equipment along the right-of-way. 8. The power plant electrical crew installs underground distribution system substation equipment. a. Prepared a mounting pad for the substation equipment. b. Positioned the substation equipment on the pad.		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
c. Installed the distribution system equipment grounds. 9. The power plant electrical crew installs underground distribution system cables. a. Performed a cable acceptance test on the reel. b. Prepared a trench that had a minimum depth of 24 inches. c. Laid cable in the trench. d. Performed splicing and testing operations, as needed. e. Back-filled the trench. f. Terminated power cables, and performed a resistance test. g. Connected power cables into the system. 10. The power plant electrical crew installs the underground distribution system and equipment protective barriers. *11. The element leader performs an after installation inspection of the distribution system and acceptance testing. a. Reviewed the data from the cable acceptance test and verified power cable serviceability. b. Inspected the splices and terminations for serviceability. c. Verified the phase sequencing of power cables. d. Verified the servicing and proper setup of the substation equipment. *12. The element leader prepares the distribution system according to the built diagram. *13. The element leader prepares an after-action report and conducts a briefing according to the unit standing operating procedure (SOP).		

TASK PERFORMANCE/EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5		TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS: NONE

SUPPORTING COLLECTIVE TASKS

Task Number	Task Title
05-1-3006	Establish Job Site Security
05-2-1218	Conduct Report Procedures

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: Four Prime Power Platoon Headquarters
Eight Prime Power Sections

TASK: Perform Electrical Safety Systems Testing and Maintenance (05-3-5703)
(FM 5-422) (FM 5-125) (FM 5-34)
(TB 43-0142) (TM 43-0156) (TM 5-6115-456-15)
(TM 5-6120-250-12) (TM 9-6115-604-12)

ITERATION: 1 2 3 4 5 (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The element is conducting operations in a contemporary operational environment and receives a mission to conduct electrical safety systems maintenance and testing. Liaison operations have been performed. This task should not be trained in MOPP4.

TASK STANDARDS: The element leader determines the exact nature of the assignment. The element deploys to the site of the assignment with and conducts the maintenance and testing within the time allotted in the order.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>* 1. The element leader receives a warning order (WO) to conduct a mission.</p> <ul style="list-style-type: none"> a. Determined the mission, enemy, terrain, troops, time available, and civilian considerations (METT-TC). b. Identified needed supplies and equipment. c. Determined special tasks. <p>2. The element deploys to the site of the assignment.</p> <ul style="list-style-type: none"> a. Performed a predeployment reconnaissance. b. Determined the requirement for prime power assets. c. Verified the specifications of the assignment. <ul style="list-style-type: none"> (1) Verified the requester's identification (name, location, and contact information). (2) Determined if there was a potential hostile threat in the area. (3) Determined the exact nature of the technical assistance required. <p>3. The element assesses the electrical safety system requirements and design support technical data available.</p> <ul style="list-style-type: none"> a. Procured a map of the area. b. Procured a one-line diagram of the system. c. Procured any pertinent manufacturers literature pertaining to the system. <p>4. The element determines the components of the electrical safety system and testing requirements for those components.</p> <ul style="list-style-type: none"> a. Included the ground grid system. b. Included the lightning arrestors. c. Included the surge capacitors. d. Included the equipment grounding points. e. Included the neutral connections. <p>* 5. The element leader prepares a bill of materials (BOM) for any supplies needed to complete the mission.</p> <p>6. The element conducts testing and maintenance of the electrical safety system.</p> <ul style="list-style-type: none"> a. Performed testing according to the— <ul style="list-style-type: none"> (1) American Society for Testing and Materials (ASTM). 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
(2) Institute of Electrical and Electronic Engineering (IEEE). (3) American Society of Mechanical Engineers (ASME). (4) National Electrical Testing Association (NETA). b. Performed maintenance, as required, based on the test results. 7. The element performs an after-action report. * 8. The element leader reports completion to higher headquarters for further action according to the unit standing operating procedure (SOP).		

TASK PERFORMANCE/EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5		TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS: NONE

SUPPORTING COLLECTIVE TASKS

Task Number	Task Title
05-2-1218	Conduct Report Procedures

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: Company Headquarters
Four Prime Power Platoon Headquarters
Eight Prime Power Sections

TASK: Perform Nonorganic Equipment Power Distribution Maintenance Operations (05-3-5704)
(FM 5-422)

ITERATION: 1 2 3 4 5 (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The element conducts maintenance on nonorganic equipment. The element maintains nonorganic distribution systems and equipment in safe, serviceable, and operational condition. This task should not be trained in MOPP4.

TASK STANDARDS: The element conducts maintenance on the nonorganic distribution system and equipment according to the applicable manufacture literature, the Institute of Electrical and Electronic Engineering (IEEE) standards, and approved maintenance procedures for distribution systems.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
1. The element establishes job site security. 2. The element obtains manufacturer literature and technical references for the equipment to be worked on. 3. The element performs distribution system maintenance. a. Prepared preventative and predictive maintenance records. b. Conducted preventative and predictive maintenance. c. Documented all work performed. 4. The element complies with the occupational health and safety standing operating procedures (SOPs) for the work site. a. Performed general housekeeping, safety procedures, and rules at the work site. b. Enforced individual work practices, safety procedures, and rules. c. Enforced safe clearance and caution procedures. * 5. The element leader reviews reports and submits the after-action report (AAR).		

TASK PERFORMANCE/EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5		TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS: NONE

SUPPORTING COLLECTIVE TASKS

Task Number	Task Title
05-4-1005	Perform Preventive-Maintenance Checks and Services (PMCS)

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: Company Headquarters
 Four Prime Power Platoon Headquarters
 Eight Prime Power Sections

TASK: Retrieve Electrical-Power Generation and Distribution Equipment (05-3-5705)
 (FM 5-422) (DA FORM 2258)

ITERATION: 1 2 3 4 5 (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The element is given a mission directive to retrieve an installed power plant with operational and organizational maintenance support activities. This task should not be trained in MOPP4.

TASK STANDARDS: The element retrieves the power plant equipment, associated distribution equipment, auxiliary-support system, operations support activities, and organizational maintenance support activities according to higher headquarters (HQ) directives, item specific technical manuals (TMs), and standard operating procedures (SOPs) used for the disassembly of power plant and auxiliary-support equipment.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ol style="list-style-type: none"> 1. The element coordinates the external support required for moving the equipment. <ol style="list-style-type: none"> a. Coordinated transportation requirements. b. Coordinated requirements for materials-handling equipment. c. Coordinated requirements for the fabrication of packing and crating containers. 2. The element performs power plant retrieval management. <ol style="list-style-type: none"> a. Determined the operational condition and serviceability of the power plant equipment. b. Determined the serviceability of auxiliary support systems and equipment. c. Ensured that the power plant operational records were closed out and packed. d. Ensured that the power plant safety records were closed out and packed. e. Inventoried and packed the bench stock of the power plant crew. f. Ensured that the test, measurement, and diagnostic equipment (TMDE) of the power plant crew was inventoried and packed. g. Ensured that the power plant petroleum, oil, and lubricant (POL) products were packed and/or turned in. * 3. The element leader performs distribution system retrieval management. <ol style="list-style-type: none"> a. Prepared a distribution system retrieval critical path method (CPM) diagram. b. Assembled work crews and assigned their responsibilities. c. Determined the operational condition and the serviceability of the distribution system equipment. 4. The power plant organizational-maintenance team performs organizational maintenance after mission management. <ol style="list-style-type: none"> a. Ensured that all current faults were recorded on the maintenance work sheet. b. Updated and packed the power plant and distribution equipment historical records. c. Inventoried and packed the prescribed load list (PLL). 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ul style="list-style-type: none"> d. Inventoried and packed special maintenance items. e. Inventoried and packed the maintenance shop bench stock. f. Inventoried and packed the maintenance shop TMDE. g. Packed and/or turned in the maintenance shop POL products. <p>5. The element performs a work project hazards analysis.</p> <ul style="list-style-type: none"> a. Determined potential mechanical hazards, safety equipment, and protective measures. b. Determined potential electrical hazards, safety equipment, and protective measures. c. Determined potential chemical hazards, safety equipment, and protective measures. <p>* 6. The element leader conducts a work project safety briefing.</p> <ul style="list-style-type: none"> a. Reviewed the requirements for wearing proper safety equipment and clothing. b. Reviewed the requirements for using ground guides for vehicles and materials-handling equipment. c. Reviewed the requirements for using the correct hand-and-arm signals to communicate boom, hook, or fork movement of materials and equipment. d. Reviewed the requirements for an individual's safe conduct on the job. e. Reviewed the requirements for the safe use and handling of flammable, combustible, and hazardous materials. f. Reviewed the requirements and procedures for the safe handling of pest and rodent control materials. g. Reviewed the requirements for applying safe clearances. <p>7. The element performs the disassembly and preparation of power plant equipment for shipment.</p> <ul style="list-style-type: none"> a. Prepared Department of the Army (DA) Form 2258. b. Processed the mechanical, electrical, and instrumental equipment. c. Packed and crated components and materials. <ul style="list-style-type: none"> (1) Used recommended crating methods. (2) Prepared and used packaging information tags. (3) Used recommended packaging materials. d. Prepared equipment for quarantine, as directed by shipping instructions. <p>* 8. The element leader inspects shipping labels for proper preparation and correct addresses.</p> <p>9. The element loads the power plant equipment, power distribution equipment, and supplies.</p> <ul style="list-style-type: none"> a. Loaded major end-item equipment. b. Loaded special-purpose equipment. c. Loaded supplies and materials. d. Inspected the rigging equipment before it was used. e. Inspected the rigging and loading of equipment for transport. <p>*10. The element leader prepares an after-action report and conducts a mission completion briefing.</p>		

TASK PERFORMANCE/EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5		TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS: NONE

SUPPORTING COLLECTIVE TASKS

Task Number	Task Title
05-2-1218	Conduct Report Procedures

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: Four Prime Power Platoon Headquarters
Eight Prime Power Sections

TASK: Perform Nonorganic Power Generation System Maintenance Operations (05-3-5707)
(FM 5-422) (DA FORM 2407)

ITERATION: 1 2 3 4 5 (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The element conducts the maintenance program and performs organizational maintenance on a nonorganic generation system. The element must maintain the power plant and auxiliary support systems equipment in a safe, serviceable, and operational condition. This task should not be trained in MOPP4.

TASK STANDARDS: The element performs organizational maintenance on the nonorganic generation system and auxiliary support system equipment. The equipment is maintained to the appropriate level of maintenance and is brought up to an operational level according to the regulations, higher headquarters (HQ) directives, item specific technical manuals (TMs), and approved maintenance procedures.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>* 1. The element leader receives a mission to perform maintenance on nonorganic equipment.</p> <ul style="list-style-type: none"> a. Determined the equipment type. b. Notified the element in the form of a warning order (WO). c. Planned for the mission. <ul style="list-style-type: none"> (1) Determined the bill of materials (BOM) needed to complete the mission. (2) Coordinated for transportation requirements and shipment of the BOM. <p>* 2. The element leader briefs maintenance personnel.</p> <ul style="list-style-type: none"> a. Defined the duties and responsibilities of maintenance personnel. b. Defined the procedures for conducting maintenance operations. <p>NOTE: Procedures for conducting maintenance operations include the following: performing preventative and predictive maintenance, maintaining preventative and predictive maintenance records, and documenting and controlling organizational maintenance shop work projects.</p> <p>3. The maintenance crew performs maintenance on the equipment and systems of the power plant.</p> <ul style="list-style-type: none"> a. Requested and applied safe clearances. b. Requested and applied cautions. c. Troubleshoot equipment and systems. d. Performed scheduled preventative and predictive maintenance on mechanical subsystems. e. Performed repairs on equipment breakdowns. f. Released and removed safe clearances. g. Released and removed cautions. h. Accounted for repair parts and materials used. <p>4. The element complies with standing operating procedures (SOPs) for the nonorganic generation system maintenance program.</p> <ul style="list-style-type: none"> a. Ensured that hearing conservation and protection procedures were followed. b. Ensured that general housekeeping and safety procedures were followed. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>c. Enforced safe clearance and caution procedures.</p> <p>* 5. The element leader enforces safety regulations and SOPs.</p> <p>a. Enforced fire prevention and protection procedures for the shop.</p> <p>NOTE: This includes appointing an organizational shop fire marshal.</p> <p>b. Performed unscheduled safety inspections.</p> <p>c. Conducted daily safety briefings.</p> <p>d. Enforced individual work practices, safety procedures, and rules.</p> <p>6. The element tests generation and distribution equipment.</p> <p>a. Conducted tests following the procedures and standards for nonorganic maintenance of power plant equipment and systems.</p> <p>b. Tested power plants, distribution system equipment, and other systems based on standards from the—</p> <p>(1) American Society of Testing Methods (ASTM).</p> <p>(2) Institute of Electrical and Electronic Engineers (IEEE).</p> <p>(3) American Society of Mechanical Engineers (ASME).</p> <p>(4) National Electrical Testing Association (NETA).</p> <p>* 7. The element leader coordinates external (intermediate) maintenance support requirements.</p> <p>a. Ensured that Department of the Army (DA) forms 2404 and 2407 were prepared.</p> <p>b. Ensured that the maintenance request register was posted.</p> <p>* 8. The element leader oversees operation of the maintenance crew.</p> <p>a. Ensured that maintenance projects were documented and records were maintained.</p> <p>b. Ensured that equipment maintenance and historical records were maintained.</p> <p>c. Ensured that maintenance was completed according to the approved maintenance procedures.</p> <p>* 9. The element leader submits reports as required by unit SOP.</p>		

TASK PERFORMANCE/EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5		TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS: NONE

SUPPORTING COLLECTIVE TASKS

Task Number	Task Title
05-2-1218	Conduct Report Procedures

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: Four Prime Power Platoon Headquarters
Eight Prime Power Sections

TASK: Perform a Power Plant Installation Survey (05-3-5709)
(FM 5-422)

ITERATION: 1 2 3 4 5 (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The element is conducting continuous operations and receives an assignment to install a power plant (organic and/or nonorganic). Liaison operations have been performed. This task should not be trained in MOPP4.

TASK STANDARDS: The element leader receives a warning order (WO) and determines the exact nature of the assignment. The element leader deploys to the assignment site and conducts a complete power plant installation survey within the time allotted in the WO.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ul style="list-style-type: none"> * 1. The survey team leader receives a mission in a WO. 2. The survey team deploys to the site of the survey assignment. * 3. The survey team leader verifies the specifications of the assignment. Verified the— <ul style="list-style-type: none"> a. Requester's identification (name, location, and contact information). b. Technical support required for performing the work (mechanical, electrical, and instrumentation). c. Dates of the mission and possible conflicts. d. Potential hostile threat in the area. 4. The survey team performs a work project hazards analysis. <ul style="list-style-type: none"> a. Identified potential mechanical hazards, safety equipment, and protective measures. b. Identified potential electrical hazards, safety equipment, and protective measures. c. Identified potential chemical hazards, safety equipment, and protective measures. d. Identified environmental concerns and protective measures. 5. The survey team performs a power plant (organic and/or nonorganic) installation survey. <ul style="list-style-type: none"> a. Verified the availability of technical data and information required for installing the power plant and/or generator set, to include the— <ul style="list-style-type: none"> (1) Site survey data. (2) Site plan. (3) Equipment mounting pad construction and materials specifications. (4) Generator set, electrical systems and/or equipment, electrical diagrams, and installation specifications. (5) Generator set, mechanical systems and/or equipment, mechanical diagrams, and installation specifications. (6) Coordination for protective devices relay calibration data. (7) Generator set operation and maintenance manuals and literature. (8) Control station operation and maintenance manuals and literature. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ul style="list-style-type: none"> (9) Substation equipment operation and maintenance manuals and literature. (10) Project bill of materials (BOM) list. b. Verified the power plant placement (interior and/or exterior). c. Validated the power plant siting, to include the— <ul style="list-style-type: none"> (1) Levelness (slope) of the site. (2) Total amount of square feet of space available (boundary to boundary) at the site. (3) Positioning of the site relative to existing overhead power lines. (4) Surface of the site overburden, including— <ul style="list-style-type: none"> (a) Peat surface. (b) Cinder surface. (c) Topsoil surface. (5) Ability of the soil to support vehicular movement. (6) Site drainage. (7) Soil type and condition relative to equipment grounding at the site. d. Validated the generator site accessibility by the road, to include the— <ul style="list-style-type: none"> (1) Potential for the surface condition to support the weight of transport and the specific model of generator set. (2) Potential problem areas between the equipment staging area and the installation site, including— <ul style="list-style-type: none"> (a) Bridges. (b) Culverts. (c) Underpasses. (d) Curves. (e) Restrictions (road width and overhead obstructions). (f) Grade (descending and inclining). e. Validated on-site generator set and materials-handling equipment capabilities, to include the— <ul style="list-style-type: none"> (1) Type of equipment available (crane or forklift). (2) Rated lifting capacity of the equipment. (3) Operational condition (fair, good, or excellent) of available equipment. f. Validated the prevailing wind at the site. g. Validated the equipment mounting pads, to include the— <ul style="list-style-type: none"> (1) Type of pad and the material specifications approved for the specific model of equipment. (2) Orientation of generator set(s) pads relative to the prevailing wind. (3) End-to-end and side-to-side levelness as required for the specific model generator set. h. Prepared an estimate of the further scope of work required by the functional area, to include the— <ul style="list-style-type: none"> (1) Access road upgrade and/or construction. (2) Site surface preparation (leveling and/or excavation). (3) External fuel system construction. (4) Site drainage construction. (5) Site and/or plant protective barrier and berm construction. (6) Environmental-concern protective construction. (7) Equipment-grounding electrode resistance improvement. (8) Plant equipment interconnecting electrical cable trenching construction. i. Validated a power plant site map, including the— <ul style="list-style-type: none"> (1) Site boundaries. 		

TASK STEPS AND PERFORMANCE MEASURES		GO	NO-GO
(2) Generator set(s) position(s) relative to site boundaries and to each other. (3) Power plant control station position relative to the generator set(s). (4) Electric power management equipment relative to the control station and the generator set(s). (5) Position of existing distribution system and equipment relative to the site. (6) Spacing between generator(s), power plant control equipment, power management equipment, external fuel supply, and/or activities either on or in close proximity to the site. (7) Prevailing wind direction on the map. (8) Positioning of the site relative to other activities and/or facilities having an environmental impact and/or concern, including— (a) Troop billeting. (b) Headquarters (HQ) operations. (c) Hospitals. (d) Wetlands. j. Validated power plan installation critical path method (CPM) diagrams.			
* 6. The survey team leader assesses administrative support requirements, to include— a. Funding for personnel, equipment, and expendable BOM. b. Maps and area specifications (special dangers or restrictions). c. Lodging availability.			
* 7. The survey team leader reports survey findings to the element leader for further action.			

TASK PERFORMANCE/EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5		TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS: NONE

SUPPORTING COLLECTIVE TASKS

Task Number	Task Title
05-2-1218	Conduct Report Procedures

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: Four Prime Power Platoon Headquarters
Eight Prime Power Sections

TASK: Perform a Distribution System Installation Survey (05-3-5710)
(FM 5-422)

ITERATION: 1 2 3 4 5 (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The element is conducting continuous operations and receives a mission for installing a distribution system (organic and/or nonorganic). Liaison operations are performed. This task should not be trained in MOPP4.

TASK STANDARDS: The element leader receives a warning order (WO) and determines the exact nature of the mission. The element deploys to the site of mission and conducts a complete distribution system installation survey within the time allotted in the order.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ul style="list-style-type: none"> * 1. The survey team leader receives a mission in a WO. 2. The survey team deploys to the site of the mission survey. * 3. The survey team leader verifies specifications of the mission. <ul style="list-style-type: none"> a. Included requester's identification (name, location, and contact information). b. Identified technical support required for performing the work (electrical, instrumentation, and lineman). c. Determined dates of the mission and possible conflicts. d. Determined potential hostile threat in the area. 4. The survey team performs a work project hazards analysis. <ul style="list-style-type: none"> a. Identified potential mechanical hazards, safety equipment, and protective measures. b. Identified potential electrical hazards, safety equipment, and protective measures. c. Identified potential chemical hazards, safety equipment, and protective measures. d. Identified environmental concerns and protective measures. * 5. The survey team leader performs a work project safety briefing. <ul style="list-style-type: none"> a. Included requirements for wearing proper individual safety equipment and clothing. b. Included requirements for individual safe conduct on the job. c. Included requirements for safe hazardous materials handling. d. Included safe clearance requirements. e. Included job hazard assessment driving safety. f. Identified environmental concerns. 6. The survey team performs a distribution system (organic and/or nonorganic) installation survey. <ul style="list-style-type: none"> a. Surveyed an aerial (overhead) distribution system. <ul style="list-style-type: none"> (1) Route is surveyed, cleared, and staked. (2) Route horizontal clearance was consistent with clearance distance for the applied voltage level. (3) Route was accessible to line construction vehicles. (4) Power line layout observed established layout rules. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ul style="list-style-type: none"> (5) System arrangement (ring or radial) was correct. (6) Utility pole spacing was consistent with recommended pole spacing and span limitations. (7) Utility pole selection was consistent with recommended specification as determined by the pole application. (8) Specification and application for cross arms, side arms, buck arms, and secondary racks were correct. (9) Specifications for conductor sagging and spacing were correct. (10) Specifications for guying and anchoring utility poles were correct. b. Surveyed underground distribution system. <ul style="list-style-type: none"> (1) Route was surveyed, cleared, and staked. (2) Route was accessible to line construction vehicles. (3) Power line layout observed established layout rules. (4) System arrangement (ring or radial) was correct. (5) Trenching was prepared to a proper depth and width. (6) Manhole positioning observed recommended spacing and application. (7) Transformer vault sizing and positioning observed recommended application. (8) Service box positioning observed recommended spacing and application. (9) Installation specifications of ducts were correct. <ul style="list-style-type: none"> (a) Length of individual runs. (b) Grading (slope) of runs. (c) Spacing between ducts. (10) Duct sizing was consistent with requirements for the size of cable to be installed. c. Surveyed surface-laid distribution system. <ul style="list-style-type: none"> (1) Route was surveyed, cleared, and marked. (2) Route was accessible to materials-handling equipment. (3) Power line layout observed established layout rules. (4) System arrangement (ring or radial) was correct. (5) Specifications, application, and requirements for protective barriers were correct. d. Surveyed distribution system electrical equipment. <ul style="list-style-type: none"> (1) Specifications and application of conductors. (2) Specifications and application of switches. (3) Specifications and application of fuses. (4) Specifications and application of lightning arrestors. (5) Specifications and application of power transformers: <ul style="list-style-type: none"> (a) Voltage rating. (b) Step up or step down. (c) Current rating (continuous and/or short circuit). (d) Connecting requirements and additive of subtractive polarity (boost or buck) single phase. (6) Specifications and application of power quality management equipment (line voltage regulator and power factor correction capacitors). (7) Specifications and application of protective relays (when used). (8) System phasing requirements (delta or wye). (9) Types of secondary distribution circuits. e. Prepared an estimate of the further scope of work required. <ul style="list-style-type: none"> (1) Access road upgrade and/or construction. (2) Access environmental concerns and protective measures. (3) Access equipment grounding electrode R. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
* 7. The survey team leader assesses administrative support requirements. <ul style="list-style-type: none"> a. Determined the funding for personnel, equipment, and expendable bill of materials (BOM). b. Reviewed the maps and area specifications (special dangers or restrictions). c. Identified the lodging availability. d. Determined the BOM required to support the mission and materials available. 		
* 8. The survey team leader reports survey findings to the element leader for further action.		

TASK PERFORMANCE/EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5		TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS: NONE

SUPPORTING COLLECTIVE TASKS: NONE

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: Four Prime Power Platoon Headquarters
Eight Prime Power Sections

TASK: Perform a Power Plant Maintenance Survey (05-3-5712)
(FM 5-422)

ITERATION: 1 2 3 4 5 (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The element is conducting continuous operations and receives a mission to perform a power plant (organic and/or nonorganic) maintenance survey. Liaison operations have been performed. This task should not be trained in MOPP4.

TASK STANDARDS: The element leader receives a warning order (WO) and determines the exact nature of the assignment. The element leader deploys to the site of the power plant and conducts a complete maintenance survey within the time allotted in the WO.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>* 1. The survey team leader receives a mission in a WO.</p> <p>2. The survey team deploys to the mission survey site.</p> <p>3. The survey team verifies the specifications of the assignment mission. Verified the—</p> <ul style="list-style-type: none"> a. Requester's identification (name, location, and contact information). b. Dates of the mission and possible conflicts. c. Potential hostile threat in the area. <p>4. The survey team performs a work project hazards analysis.</p> <ul style="list-style-type: none"> a. Identified potential mechanical hazards, safety equipment, and protective measures. b. Identified potential electrical hazards, safety equipment, and protective measures. c. Identified potential chemical hazards, safety equipment, and protective measures. d. Identified environmental concerns and protective measures. <p>5. The survey team performs a power plant (organic and/or nonorganic) maintenance survey.</p> <ul style="list-style-type: none"> a. Verified equipment operation and maintenance publications availability. b. Verified equipment maintenance historical records availability. c. Verified the type of maintenance required, including— <ul style="list-style-type: none"> (1) Inspection. (2) Schedule. (3) Breakdown. d. Determined the repair parts and materials required. e. Determined the tools and equipment required. f. Prepared a future scope of the work. <ul style="list-style-type: none"> (1) Outlined the extent of the work to be performed. (2) Specified the technical support (mechanical, electrical, or instrumental) required to perform the work. (3) Estimated the work hours required. (4) Estimated the cost of the project. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
(5) Provided recommendations on the economic feasibility of performing the work based on item repair expenditure limitations (repair maintenance only). * 6. The survey team leader reports the survey findings to the element leader for further action. * 7. The survey team leader assesses the administrative support requirements. Assessed the— a. Funding for personnel, equipment, and consumable materials. b. Maps and area specifications (special dangers or restrictions). c. Lodging availability. d. Parts and materials available to support the mission.		

TASK PERFORMANCE/EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5		TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS: NONE

SUPPORTING COLLECTIVE TASKS

Task Number	Task Title
05-2-1218	Conduct Report Procedures

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: Four Prime Power Platoon Headquarters
Eight Prime Power Sections

TASK: Perform a Power Distribution System Maintenance Survey (05-3-5713)
(FM 5-422)

ITERATION: 1 2 3 4 5 (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The element is conducting continuous operations and receives a mission to perform a distribution system (organic and/or nonorganic) maintenance survey. This task should not be trained in MOPP4.

TASK STANDARDS: The element leader receives a warning order (WO) and determines the exact nature of the assignment. The element deploys to the site of the mission and conducts a complete distribution system maintenance survey within the time allotted in the order.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>* 1. The survey team leader receives a mission in a WO.</p> <p>2. The survey team deploys to the site of the mission survey.</p> <p>3. The survey team verifies specifications of the mission.</p> <ol style="list-style-type: none"> Included requester identification (name, location, and contact information). Identified dates of the mission and possible conflicts. Determined potential hostile threat in the area. <p>4. The survey team performs a work project hazards analysis.</p> <ol style="list-style-type: none"> Identified potential mechanical hazards, safety equipment, and protective measures. Identified potential electrical hazards, safety equipment, and protective measures. Identified potential chemical hazards, safety equipment, and protective measures. Identified environmental concerns and protective measures. <p>5. The survey team performs a distribution system (organic and/or nonorganic) maintenance survey.</p> <ol style="list-style-type: none"> Validated the type of distribution system. <ol style="list-style-type: none"> Overhead (aerial). Underground. Surface-laid. Verified equipment operation and maintenance publications availability. Verified equipment maintenance historical records availability. Verified the type of maintenance required. <ol style="list-style-type: none"> Inspection. Schedule. Breakdown. Determined the repair parts and materials required. Determined the tools and equipment required. Prepared a future scope of the work. <ol style="list-style-type: none"> Outlined the extent of the work to be performed. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
(2) Specified the technical support (lineman, electrical, instrumentation) required to perform the work. (3) Estimated the man-hours required. (4) Estimated the cost of the project. (5) Provided a recommendation on the economic feasibility of performing the work (repair maintenance). * 6. The survey team leader assesses administrative support requirements. a. Determined funding for personnel, equipment, and consumable materials. b. Reviewed the maps and area specifications (special dangers or restrictions). c. Identified the lodging availability. d. Identified parts and materials available to support the mission. * 7. The survey team leader reports survey findings to the element leader for further action.		

TASK PERFORMANCE/EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5		TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS: NONE

SUPPORTING COLLECTIVE TASKS: NONE

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: Four Prime Power Platoon Headquarters
Eight Prime Power Sections

TASK: Perform an Electrical Load Survey (05-3-5714)
(FM 5-422)

ITERATION: 1 2 3 4 5 (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The element is conducting continuous operations and receives a mission to perform an electrical load survey. This task should not be trained in MOPP4.

TASK STANDARDS: The element leader receives a warning order (WO) and determines the exact nature of the mission. The element deploys to the site of the mission and performs a complete electrical load survey within the time allotted in the order.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ul style="list-style-type: none"> * 1. The survey team leader receives a mission in a WO. 2. The survey team deploys to the site of the mission survey. 3. The survey team verifies specifications of the mission. <ul style="list-style-type: none"> a. Included requester identification (name, location, and contact information). b. Identified dates of the mission and possible conflicts. c. Identified potential hostile threat in the area. 4. The survey team performs a work project hazards analysis. <ul style="list-style-type: none"> a. Identified potential mechanical hazards, safety equipment, and protective measures. b. Identified potential electrical hazards, safety equipment, and protective measures. c. Identified potential chemical hazards, safety equipment, and protective measures. d. Identified environmental concerns and protective measures. * 5. The survey team leader performs a work project safety briefing. <ul style="list-style-type: none"> a. Included requirements for wearing proper individual safety equipment and clothing. b. Included requirements for individual safe conduct on the job. c. Included requirements for safe hazardous materials handling. d. Included safe clearance requirements. e. Included job hazard assessment driving safety. f. Identified environmental concerns. 6. The survey team performs an electrical load survey. <ul style="list-style-type: none"> a. Procured and/or prepared a distribution system one-line diagram. <ul style="list-style-type: none"> (1) Primary system. (2) Secondary system. b. Determined the facilities type. c. Collected the facility electrical load data. <ul style="list-style-type: none"> (1) Collected the resistive load data. (2) Collected the inductive load data. (3) Collected the capacitive load data. d. Computed the facility connected load. e. Computed the facility demand load. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
f. Determined the facility allowance for growth. g. Determined the load connection requirements for facility load balancing on the circuit. h. Prepared the circuits and/or systems load connection. i. Prepared a power requirements data sheet. 7. The survey team prepares an after-action report. * 8. The survey team leader reports survey findings to the element leader for further action.		

TASK PERFORMANCE/EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5		TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS: NONE

SUPPORTING COLLECTIVE TASKS: NONE

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: Four Prime Power Platoon Headquarters
Eight Prime Power Sections

TASK: Perform Power Plant Design Technical Assistance (05-3-5715)
(FM 5-422)

ITERATION: 1 2 3 4 5 (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The element is conducting continuous operations and receives a mission to perform technical assistance for designing a power plant (organic and/or nonorganic). Liaison operations have been performed. This task should not be trained in MOPP4.

TASK STANDARDS: The element leader receives a warning order (WO) and determines the exact nature of the assignment. The element leader deploys to the site of the assignment and provides technical assistance for designing the power plant within the time allotted in the WO.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>* 1. The technical-assistance team leader receives a mission in a WO.</p> <p>2. The technical-assistance team deploys to the site of the technical assignment.</p> <p>3. The technical-assistance team verifies the specifications of the assignment. Verified the—</p> <ul style="list-style-type: none"> a. Requester's identification (name, location, and contact information). b. Potential hostile threat in the area. c. Exact nature of the technical assistance requested. <p>4. The technical-assistance team provides power plant design technical assistance.</p> <ul style="list-style-type: none"> a. Advised on technical data and information required to design the power plant, to include the— <ul style="list-style-type: none"> (1) Generator set technical data and specifications. (2) Load survey data. (3) Site survey data. (4) Plant application (base, peaking, and backup). b. Advised on generator set deployment concepts, to include the— <ul style="list-style-type: none"> (1) Disbursed siting. (2) Colocated siting. c. Advised on the generator set and support system specification requirements, to include the— <ul style="list-style-type: none"> (1) Output voltage required. (2) Output current required, including— <ul style="list-style-type: none"> (a) Continuous operation. (b) Start up. (3) Output phase connection arrangement. (4) Generator operational protection, including— <ul style="list-style-type: none"> (a) Short-circuits. (b) Overloads. (c) Lightning. (5) Generator set grounding system, including the— <ul style="list-style-type: none"> (a) Equipment. (b) System neutral. (6) Engine start system. (7) External fuel supply system. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
(8) Engine freeze protection. d. Advised on the generator set output power conductor specifications, to include the— (1) Type, size, and quantity. (2) Installation methods and termination. e. Advised on power plant and/or generator set control station requirements. f. Advised on power plant and/or generator set shore power requirements. g. Advised on power plant specifications for output voltage transformation equipment. h. Advised on power plant layout. 5. The technical-assistance team prepares an after-action report. * 6. The technical-assistance team leader reports assignment completion to the element leader for further action.		

TASK PERFORMANCE/EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5		TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS: NONE

SUPPORTING COLLECTIVE TASKS: NONE

OPFOR TASKS AND STANDARDS: NONE

ELEMENT: Four Prime Power Platoon Headquarters

TASK: Perform Power Plant Installation Technical Assistance (05-3-5716)
(FM 5-422)

ITERATION: 1 2 3 4 5 (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The element is conducting continuous operations and receives a mission to perform technical assistance for installing a power plant or a backup generator (organic and/or nonorganic). Liaison operations have been performed. This task should not be trained in MOPP4.

TASK STANDARDS: The element leader receives a warning order (WO) and determines the exact nature of the assignment. The element leader deploys to the assignment site and provides technical assistance for installing the power plant within the time allotted in the WO.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>* 1. The technical-assistance team leader receives a mission in a WO.</p> <p>2. The technical-assistance team leader deploys to the assignment site.</p> <p>3. The technical-assistance team verifies the specifications of the assignment. Verified the—</p> <ul style="list-style-type: none"> a. Requester's identification (name, location, and contact information). b. Potential hostile threat in the area. c. Exact nature of the technical assistance requested. <p>4. The survey team provides power plant installation technical assistance.</p> <ul style="list-style-type: none"> a. Advised on power plant and/or backup generator equipment transporting and handling, to include— <ul style="list-style-type: none"> (1) Transport vehicle requirements. (2) Materials-handling equipment requirements. (3) Packaging, preservation, and deprocessing requirements. (4) Road reconnaissance requirements for line-hauling power plant equipment. b. Advised on power plant and/or backup generator siting, to include the— <ul style="list-style-type: none"> (1) Site space required. (2) Site levelness required. (3) Equipment mounting pads, including the— <ul style="list-style-type: none"> (a) Generator set. (b) Control rooms. (4) Access road requirements. (5) Site surface soil condition. (6) Site drainage and berming. c. Advised on power plant and/or backup generator grounding system requirements, including methods for improving electrode ground resistance. d. Advised on power plant and/or backup generator external fuel system requirements. e. Advised on power plant and/or backup generator innerconnecting cable installation methods. f. Advised on power plant after-installation inspection and checkout requirements. g. Advised on power plant protective devices coordination. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
h. Advised on power plant equipment protective barrier installation requirements. i. Advised on power plant and/or backup generator safety signs and marking requirements. j. Advised on work project hazards analysis requirements and potential, to include— (1) Mechanical hazards, safety equipment, and protective measures. (2) Electrical hazards, safety equipment, and protective measures. (3) Chemical hazards, safety equipment, and protective measures. (4) Environmental concerns and protective measures. k. Advised on work project safety requirements, to include— (1) Individual safety equipment and clothing. (2) Individual safe conduct on the job. (3) Safe hazardous-materials handling. (4) Safe clearance procedures. (5) Job hazard assessment-driven safety and environmental concerns. (6) Fire protection equipment use procedures. 5. The technical assistance team prepares an after-action report. * 6. The survey team leader reports the survey findings to the element leader for further action.		

TASK PERFORMANCE/EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5		TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS: NONE

SUPPORTING COLLECTIVE TASKS: NONE

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: Four Prime Power Platoon Headquarters
Eight Prime Power Sections

TASK: Perform Power Plant Distribution System Design Technical Assistance (05-3-5717)
(FM 5-422)

ITERATION: 1 2 3 4 5 (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The element receives a mission to perform power distribution system design technical assistance (organic and/or nonorganic). Liaison operations have been performed. This task should not be trained in MOPP4.

TASK STANDARDS: The element leader receives a warning order (WO) and determines the exact nature of the assignment. The element leader deploys to the assignment site and provides technical assistance for designing the power distribution system requirements within the time allotted in the WO.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>* 1. The technical assistance team leader receives a mission in a WO.</p> <p>2. The technical assistance team deploys to the assignment site.</p> <p>3. The technical assistance team verifies the specifications of the assignment. Verified the—</p> <ul style="list-style-type: none"> a. Requester's identification (name, location, and contact information). b. Potential hostile threat in the area. c. Exact nature of the technical assistance requested. <p>4. The survey team provides power distribution system (power plant and/or generation system) design technical assistance.</p> <ul style="list-style-type: none"> a. Advised on technical data and information requirements to design the system, including— <ul style="list-style-type: none"> (1) Power plant and/or generator set power output specifications. (2) Load survey data. (3) Distribution system route survey data. (4) Distribution system electrical-equipment technical data and specifications. b. Advised on categories of distribution systems and their application, to include— <ul style="list-style-type: none"> (1) Overhead. (2) Underground. (3) Surface-laid. c. Advised on distribution system layout requirements and application, to include— <ul style="list-style-type: none"> (1) Ring layout. (2) Radial layout. d. Advised on distribution system circuit connection configuration requirements and application, to include— <ul style="list-style-type: none"> (1) Delta. (2) Wye. e. Advised on distribution system power quality control requirements, to include— <ul style="list-style-type: none"> (1) Voltage. (2) Power factors. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
f. Advised on distribution system neutral and equipment grounding requirements. g. Advised on distribution system conductor specification requirements, to include the— (1) Type, size, and quantity. (2) Installation methods. h. Advised on distribution system power quality control and/or substation equipment requirements, including— (1) Voltage control, regulation, and transformation equipment. (2) Circuit protective equipment. (3) Power factor correction equipment. i. Advised on the types of distribution systems and their application, including— (1) Single-phase, two-wire. (2) Single-phase, three-wire. (3) Three-phase, three-wire. (4) Three-phase, four-wire j. Advised on distribution system load balancing requirements. k. Advised on distribution system phase rotation requirements. * 5. The technical-assistance team leader prepares an after-action report. * 6. The technical-assistance team leader reports assignment completion to the element leader for further action.		

TASK PERFORMANCE/EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5		TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS: NONE

SUPPORTING COLLECTIVE TASKS: NONE

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: Four Prime Power Platoon Headquarters
Eight Prime Power Sections

TASK: Perform Power Plant Distribution System Installation Technical Assistance (05-3-5718)
(FM 5-422)

ITERATION: 1 2 3 4 5 (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The element is conducting continuous operations and receives a mission to perform technical assistance for installing a power distribution system (organic and/or nonorganic). This task should not be trained in MOPP4.

TASK STANDARDS: The element leader receives a warning order (WO) and determines the exact nature of the assignment. The element deploys to the site of the assignment and provides technical assistance for installing the power distribution system within the time allotted in the order.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ul style="list-style-type: none"> * 1. The technical assistance team leader receives a mission in a WO. 2. The technical assistance team deploys to the site of the mission. * 3. The technical assistance team leader verifies specifications of the mission. <ul style="list-style-type: none"> a. Included requesters identification (name, location, and contact information). b. Identified potential hostile threat in the area. c. Determined the exact nature of the technical assistance requested. 4. The technical assistance team advises on performing a work project hazards analysis. <ul style="list-style-type: none"> a. Identified potential mechanical hazards, safety equipment, and protective measures. b. Identified potential electrical hazards, safety equipment, and protective measures. c. Identified potential chemical hazards, safety equipment, and protective measures. d. Identified potential environmental concerns and protective measures. 5. The technical assistance team advises on conducting work project safety. <ul style="list-style-type: none"> a. Included individual safety equipment and clothing. b. Included individual safe conduct on the job. c. Included hazardous materials handling safety. d. Included safe clearance requirements. e. Included job hazard assessment driving safety and environmental concerns. 6. The survey team provides power distribution system installation technical assistance. <ul style="list-style-type: none"> a. Advised on technical data and information to support installing the distribution system. <ul style="list-style-type: none"> (1) System route layout plan. (2) System grading plan and staking charts. (3) System survey data sheets. (4) Construction prints and electrical diagrams. (5) System bill of materials (BOM) list. (6) System load survey. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ul style="list-style-type: none"> b. Advised on distribution system materials and equipment transporting and handling. <ul style="list-style-type: none"> (1) Transport vehicle requirements. (2) Materials-handling equipment requirements. (3) Electrical equipment packaging, preservation, and deprocessing requirements. (4) Road reconnaissance requirements for line-hauling power line equipment. (5) Staging equipment for installation. c. Advised on distribution system route preparation. <ul style="list-style-type: none"> (1) Route clearing. (2) Route layout and staking. (3) Route access road preparation. d. Advised on distribution system conductor installation. e. Advised on distribution system connection configuration. <ul style="list-style-type: none"> (1) Wye. (2) Delta. f. Advised on distribution system phase rotation. g. Advised on distribution systems installation. <ul style="list-style-type: none"> (1) Single-phase, two-wire. (2) Single-phase, three-wire. (3) Three-phase, three-wire. (4) Three-phase, four-wire. h. Advised on distribution system power quality management and/or substation equipment installation. <ul style="list-style-type: none"> (1) Voltage transformation equipment. (2) Voltage regulation equipment. (3) Voltage control equipment. (4) Power factor correction equipment. i. Advised on distribution system and electrical equipment protective devices installation. <ul style="list-style-type: none"> (1) Fuses. (2) Lightning arrestors. (3) Protective relays. j. Advised on distribution system neutral and equipment grounding system installation. k. Advised on secondary feeder load connection and load balancing on primary distribution system. l. Advised on distribution system after-installation inspection and checkout. <p>7. The technical assistance team prepares an after-action report.</p> <p>* 8. The survey team leader reports survey findings to the element leader for further action.</p>		

TASK PERFORMANCE/EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5		TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS: NONE

SUPPORTING COLLECTIVE TASKS: NONE

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: Four Prime Power Platoon Headquarters
Eight Prime Power Sections

TASK: Perform Power Plant Generation System Maintenance Technical Assistance (05-3-5719)
(FM 5-422)

ITERATION: 1 2 3 4 5 (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The element is conducting continuous operations and receives a mission to perform power generation system (organic and/or nonorganic) maintenance technical assistance. This task should not be trained in MOPP4.

TASK STANDARDS: The element leader receives a warning order (WO) and determines the exact nature of the assignment. The element leader deploys to the assignment site and provides technical assistance for maintenance of the power generation system within the time allotted in the WO.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>* 1. The technical-assistance team leader receives a mission in a WO.</p> <p>2. The technical-assistance team deploys to the mission site.</p> <p>3. The technical-assistance team verifies the specifications of the mission. Verified the—</p> <ul style="list-style-type: none"> a. Requester's identification (name, location, and contact information). b. Potential hostile threat in the area. c. Exact nature of the technical assistance requested. <p>4. The technical-assistance team provides power generation system (power plant/generation system) maintenance technical assistance.</p> <ul style="list-style-type: none"> a. Advised on maintenance personnel technical requirements (mechanical, electrical, instrumentation, and lineman), qualifications, and training. b. Advised on maintenance management requirements, procedures, and records, including the— <ul style="list-style-type: none"> (1) Management of records. (2) Historical data. c. Advised on maintenance tools and test, measurement, and diagnostic equipment (TMDE) requirements. d. Advised on generation and distribution equipment, maintenance and testing requirements, and intervals. <ul style="list-style-type: none"> (1) Advised during the operation. (2) Advised as scheduled. e. Advised on maintenance diagnostic systems and applications, including— <ul style="list-style-type: none"> (1) Vibration analysis. (2) Infrared surveys. f. Advised on generation and distribution equipment maintenance repair, including— <ul style="list-style-type: none"> (1) Troubleshooting procedures. (2) Maintenance repair. (3) Maintenance quality control. (4) Maintenance production management. g. Advised on occupational health and safety program requirements, including— <ul style="list-style-type: none"> (1) Personal protective clothing, equipment, and application. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>(2) Personnel safety education, duties, and responsibilities. (3) Individual safe work practices, procedures, and rules. (4) Safety clearance and/or caution requirements and procedures. h. Advised on the technical reference library.</p> <p>5. The technical-assistance team advises on maintenance logistical support requirements. Advised on the— a. Manpower requirements (mechanical, electrical, instrumentation, and lineman). b. Petroleum, oils, and lubricants (POL) and miscellaneous supplies. c. Prescribed load list (PLL). d. Authorized stock list (ASL). e. Shop stock list (SSL). f. Special tools and equipment. g. Tools and equipment control and security. h. Maintenance facility hazard analysis requirements, including the potential— (1) Mechanical hazards, safety equipment, and protective measures. (2) Electrical hazards, safety equipment, and protective measures. (3) Chemical hazards safety equipment, and protective measures. (4) Environmental concerns and protective measures.</p> <p>6. The technical-assistance team prepares an after-action report.</p> <p>* 7. The technical-assistance leader reports assistance completion to the element leader for further action.</p>		

TASK PERFORMANCE/EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5		TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS: NONE

SUPPORTING COLLECTIVE TASKS: NONE

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: Four Prime Power Platoon Headquarters
Eight Prime Power Sections

TASK: Select a Temporary Power Plant Site (05-3-5720)
(FM 5-422)

ITERATION: 1 2 3 4 5 (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The element has been directed to install a power plant to support a mission of limited duration, to determine the number of generator sets to be installed and the auxiliary items of equipment to be used, and to select the type of generation equipment deployment, and determine the number of power plant site(s) required. This task should not be trained in MOPP4.

TASK STANDARDS: The element selects site(s) consistent with the generation equipment deployment concept. This should meet the general requirements specified for power plants and the specific technical requirements for the generator set to be installed.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>1. The element establishes job site security.</p> <p>* 2. The element leader verifies the generation equipment deployment concept. NOTE: The generation equipment deployment concept (dispersed or collocated) will determine the number of power plant sites to be selected and affect the space required for each site.</p> <p>3. The element verifies the generation equipment and auxiliary support items and systems selected for deployment.</p> <p>a. Verified the specific model of the generator set and the number of sets to be installed.</p> <p>b. Verified the specific auxiliary support equipment and the systems to be installed (such as a central control station, a distribution substation, or an external fuel supply).</p> <p>NOTE: The model of the generator set, the number of sets per site, and the auxiliary support equipment/systems at each site will determine the minimum space requirements of the site. The model of the generator set will directly affect site selection since different model sets have different leveling requirements. The slope of the site selected will determine how level the set will be when installed.</p> <p>4. The element establishes contact with the customer project officer. NOTE: The mission situation may require that the element leader of the site selection element obtain the following from the customer project officer when selecting a site: information on the presite selection by the customer and information that may expedite the site selection, such as the location of existing distribution systems; critical facilities (hospital or troop quarters); the normal flow of prevailing wind; critical documents, such as maps and overlays of the area and prints of existing distribution systems.</p> <p>5. The element ensures that the site selection element has transportation.</p> <p>* 6. The element leader briefs the site selection element on site requirements, points of contact, and special issues.</p> <p>7. The site selection element performs power plant site reconnaissance.</p>		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>8. The element analyzes the power plant site(s) reconnaissance data and recommends site(s).</p> <ul style="list-style-type: none"> a. Verified that the reconnaissance data collected was consistent with the number of sites required. b. Verified that the space of the site(s) met the minimum requirements for the specific model of the generator set(s) and auxiliary support equipment and/or systems to be installed, the movement of transport vehicles, and materials-handling equipment. c. Verified that the road network to the site existed. d. Analyzed the site soil conditions and identified potential problems. <ul style="list-style-type: none"> (1) Projected improvement construction requirements, with vehicular movement on the site surface. (2) Projected the requirement for improving the soil grounding resistance. Determined the method(s) to be used, and materials required, for installing equipment and grounding. (3) Determined the construction requirements, with soil compactness. e. Analyzed the site/slope characteristics (levelness of the site). <ul style="list-style-type: none"> (1) Identified potential problems with installing the equipment within the leveling specifications as specified for the specific model of the generator set to be installed. (2) Projected the requirements for site improvement and external construction support. f. Analyzed the site terrain features, and identified potential problems with the following: <ul style="list-style-type: none"> (1) Site flooding (drainage requirements). (2) Environmental pollution (protective methods). <p>9. The element selects a temporary power plant site.</p> <ul style="list-style-type: none"> a. Selected site(s) consistent with the deployment concept. b. Ensured that the selected site(s) met the general requirements for a site as specified for power plants. c. Ensured that the selected site(s) met the technical requirements as specified for the specific model of the generator set to be installed. d. Ensured that the selected site(s) was accessible to equipment transport vehicles and materials-handling equipment. <p>10. The element prepares the site selection after-action report.</p> <ul style="list-style-type: none"> a. Prepared the rationale for the specific site(s) selected. b. Prepared the requirement for site improvements with justification. c. Prepared an estimate of materials required for site improvements. d. Prepared an estimate of requirements for external construction support. e. Prepared a site plan. <p>11. The element prepares an environmental impact statement. Included an assessment of the—</p> <ul style="list-style-type: none"> a. The effects that contaminated spills from things such as fuel oil and lube oil had on the area. b. The effects that noise pollution had on the surrounding area. <p>*12. The element leader briefs the customer on the final site selection and gains site approval.</p>		

TASK PERFORMANCE/EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5		TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS: NONE

SUPPORTING COLLECTIVE TASKS

Task Number	Task Title
05-1-3006	Establish Job Site Security

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: Four Prime Power Platoon Headquarters
Eight Prime Power Sections

TASK: Design Temporary Nonstandard Power Distribution Systems (05-3-5721)
(FM 5-422)

ITERATION: 1 2 3 4 5 (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The element is conducting continuous operations and receives a mission to provide primary power distribution from a power plant. This task should not be trained in MOPP4.

TASK STANDARDS: The element leader receives a warning order (WO) and determines the requirements of the assignment. The element deploys to the site of the assignment and designs the power distribution system within the time allotted in the order.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ul style="list-style-type: none"> * 1. The element leader receives an assignment in a WO. 2. The element deploys to the site of the assignment. * 3. The element leader verifies specifications of the assignment. <ul style="list-style-type: none"> a. Included requester identification (name, location, and contact information). b. Identified potential hostile threat in the area. c. Determined exact nature of the technical assistance requested. 4. The element assesses the distribution system requirements. <ul style="list-style-type: none"> a. Procured a map of the area. b. Procured the power plant site plan. c. Procured an electrical load survey data and system load plan. 5. The element determines the method of distribution (overhead, surface-laid, or underground). 6. The element determines the distribution system layout (loop or radial). 7. The element determines the distribution system route. 8. The element determines the distribution transformer positioning. 9. The element determines the distribution cable requirements. 10. The element determines the distribution transformer requirements. 11. The element determines the system electrical equipment requirements. 12. The element determines the distribution line fabrication materials. 13. The element determines the distribution system and equipment grounding requirements. <ul style="list-style-type: none"> a. Determined the grounding system method and materials. b. Determined the system neutral and electrical equipment requirement. <p>NOTE: Some critical facilities require that the distribution system ground and the service system to the facility be isolated from each other.</p> 14. The element prepares a distribution system bill of materials (BOM).		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
NOTE: The method of distribution (overhead, underground, or surface-laid) will determine the construction materials required. 15. The element prepares a distribution system one-line diagram. *16. The element leader prepares an after-action report. *17. The element leader reports the assignment completion to the higher headquarters for further action.		

TASK PERFORMANCE/EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5		TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS: NONE

SUPPORTING COLLECTIVE TASKS: NONE

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: Four Prime Power Platoon Headquarters
Eight Prime Power Sections

TASK: Prepare Power Systems Construction Estimates (05-3-5722)
(FM 5-422) (TC 3-34.489)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The element receives a mission from higher headquarters (HQ) to prepare a power system construction estimate. The mission statement includes the construction drawings and specifications for a power system construction estimate. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The completed construction estimate includes a bill of materials (BOM), equipment/personnel requirements, and the logic network diagram. The time required to perform this task is increased when conducting it in mission-oriented protective posture (MOPP) 4.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>* 1. The element leader prepares a project activity list and a construction sequencing network.</p> <p>NOTE: Conduct an environmental risk assessment according to training circular (TC) 3-34.489 to determine the environmental impacts of the project and begin necessary coordination with local environmental authorities. The element leader should screen the project drawings and specifications with environmental authorities to ensure that the finished project and the required construction sequence will meet all applicable environmental laws and regulations. If necessary, changes to drawings and specifications are made and approved in writing by the designer, customer, and local environmental authorities before the start of construction.</p> <p>2. The element prepares the materials estimate.</p> <ol style="list-style-type: none"> Planned the project activities (work items) in detail. Computed quantities of materials, to include the waste factor for each activity, from the construction drawings and specifications. Determined the amount of materials required on estimating work sheets. <p>* 3. The element leader prepares equipment and/or personnel estimates.</p> <ol style="list-style-type: none"> Considered all available resources and construction methods. Determined work rates for activities in order of priority, experience, and references. Determined personnel effect of each activity. Determined equipment effort for each activity. Prepared consolidated and itemized lists of required equipment and/or personnel. Determined the amount of equipment and/or personnel required on estimating work sheets. <p>* 4. The element leader prepares the critical path method (CPM).</p> <ol style="list-style-type: none"> Determined the time duration based on equipment and/or personnel estimates. Determined the duration of the project. Highlighted the critical path. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
d. Crashed the critical path if the calculated project completion date was longer than the required project completion date. If the critical path could not be crashed to meet the required project completion date, the unit requested an extended project duration. * 5. The element leader presents the BOM, equipment/personnel requirements, and the CPM to higher HQ.		

TASK PERFORMANCE/EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS: NONE

SUPPORTING COLLECTIVE TASKS: NONE

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: Eight Prime Power Sections
Four Prime Power Platoon Headquarters

TASK: Install Prime Power Generation Equipment (05-3-5723)
 (FM 5-422) (DA FORM 2258) (FM 5-125)
 (FM 5-34) (TB 43-0142) (TM 43-0156)
 (TM 5-6115-456-15) (TM 5-6120-250-12) (TM 9-6115-604-12)

ITERATION: 1 2 3 4 5 (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The element must install a power plant and/or generator set with auxiliary support equipment. The site has been prepared with equipment pads and interconnection cable raceways and trenches; generation equipment; auxiliary support items; prescribed load list (PLL); special materials necessary for plant installation; and petroleum, oils, and lubricants (POL). Plant and equipment installation plans and electrical diagrams are available. This task should not be trained in MOPP4.

TASK STANDARDS: The element installs the power plant equipment and the auxiliary support systems. Installation should be done according to the plant installation plan; electrical diagrams; and the methods, specifications, and procedures approved for the installation of medium- and high-voltage power plants and/or generator sets and auxiliary support equipment.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>* 1. The element establishes job site security.</p> <p>2. The element inspects the power plant site for proper preparation.</p> <p>3. The element determines nonorganic equipment support requirements.</p> <p>a. Determined the method for moving and positioning the power plant equipment.</p> <p>b. Determined the requirements for lifting the equipment, such as cranes, wreckers, or forklifts.</p> <p>4. The element coordinates nonorganic equipment support requirements.</p> <p>* 5. The element leader performs power plant installation management functions.</p> <p>a. Prepared a critical-path method (CPM) diagram for power plant installation.</p> <p>b. Assembled work crew(s) and assigned responsibilities to the following:</p> <p>(1) Individuals who are responsible for providing hand-and-arm signals when ground-guiding a vehicle.</p> <p>(2) Individuals who are responsible for providing hand-and-arm signals when moving the boom, hook, and fork on materials-handling equipment.</p> <p>(3) Individual work crews who are responsible for the deprocessing and preparation of mechanical, electrical, and instrumental equipment and their systems.</p> <p>NOTE: When assigning individuals to the mechanical, electrical, and instrumentation work crews, the individual's technical qualifications as determined by the task(s) to be performed must be considered. Qualified individuals (with an additional skill identifier [ASI]) are required to perform specific mechanical, electrical, and instrumental tasks.</p> <p>* 6. The element leader conducts a work project safety briefing. Reviewed requirements for—</p> <p>a. Wearing proper individual safety equipment and clothing.</p>		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ul style="list-style-type: none"> b. Using vehicle and materials-handling equipment ground guides. c. Using the correct hand-and-arm signals to communicate boom, hook, or fork control movement for materials-handling equipment. d. Following individual safe conduct practices on the job. e. Using and handling flammable, combustible, and hazardous materials safely. f. Using safe clearance and caution procedures. <p>7. The element directs the equipment pad preparation.</p> <p>8. The element prepares equipment for installation.</p> <ul style="list-style-type: none"> a. Unpacked equipment. b. Inventoried major items of equipment. c. Inventoried PLL special installation materials and special tools. d. Deprocessed equipment according to Department of the Army (DA) Form 2258 and the technical manual (TM) for the equipment being used. <p>9. The element installs power plant equipment.</p> <ul style="list-style-type: none"> a. Used materials-handling equipment that was capable of safely lifting the heaviest item of power plant equipment. b. Used a ground guide for vehicle and materials-handling equipment. c. Checked the serviceability of lifting and plant-rigging equipment. d. Properly positioned the equipment pads as specified in the installation plan. e. Leveled the equipment on the pads as specified for the specific model of equipment. f. Properly prepared and installed mechanical, electrical, and instrumental equipment and their systems. g. Checked previous faults on the equipment and ensured that corrections had been made. h. Enforced the application of safe clearances, where required. <p>10. The element members rig the power plant equipment for lifting and movement.</p> <p>11. The designated team members maneuver the power plant equipment.</p> <p>12. The crew members apply occupational health and safety procedures and practices.</p> <p>13. The power plant mechanical crew installs mechanical equipment and systems.</p> <ul style="list-style-type: none"> a. Requested and applied safe clearances. b. Installed fuel supply systems. c. Installed air compressor equipment and supply systems. d. Prepared engine components and mechanical systems for operation. e. Aligned the engine to the generator. f. Released the safe clearance. <p>14. The power plant electrical crew installs the electrical equipment and systems.</p> <ul style="list-style-type: none"> a. Requested and applied safe clearances. b. Tested the power cables for serviceability. c. Serviced and installed the electrical components of the power plant and/or generator set. d. Installed the alternating current (AC) power system cables for the power plant and/or generator set. e. Installed the AC shore power cables for the power plant and/or generator set. f. Tested the power grounding system electrode ground resistance for the power plant and/or generator set. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ul style="list-style-type: none"> g. Set up the power distribution substation for the power plant and/or generator set. h. Tested the power plant and/or generator set AC power system phase rotation. i. Gave safe clearances. <p>15. The power plant instrumentation specialist installs instrumentation equipment and systems.</p> <ul style="list-style-type: none"> a. Requested and applied safe clearances. b. Installed the control cables for the power plant and/or generator set. c. Calibrated the protective relays for the power plant and/or generator set and distribution equipment. d. Prepared the power plant/generator set monitoring, alarm, and control systems for operation. e. Released safe clearances. <p>16. The element members perform preventative maintenance check and services (PMCS) on the power plant equipment.</p> <p>17. The element leader performs the power plant after-installation inspection and acceptance test.</p> <ul style="list-style-type: none"> a. Ensured that the operation of mechanical equipment and systems were correct by verifying— <ul style="list-style-type: none"> (1) That the generator set prime mover was working. (2) That the power plant auxiliary support systems, such as the external fuel supply, were working. b. Ensured that the operation of electrical equipment and systems were correct. <ul style="list-style-type: none"> (1) Verified that an acceptance test was performed on the electrical cables and that the test indicated the cables were serviceable. (2) Verified that a grounding system electrode ground resistance test was performed and the grounding resistance met the required resistance. (3) Verified that the power plant output phase rotation was tested and met distribution grid requirements. (4) Verified that the power plant substation output voltage was compatible with distribution grid requirements. (5) Verified that the power plant output frequency was compatible with grid requirements. c. Ensured that the operation of instrumentation equipment and systems were correct (verified the calibration and setting of the equipment protective relays). d. Ensured that the completion of PMCS on the power plant and/or generator set and auxiliary support systems as done. e. Performed equipment start-up and operational testing. <p>18. The element verifies customer loading of the power plant.</p> <ul style="list-style-type: none"> a. Ensured that the total connected load did not exceed the power plant output kilovolt amperage (KVA) rating. b. Ensured that the unbalanced load between the output phases was within the percent of the unbalance recommended for power plant output phases. <p>19. The element prepares the after-action report and conducts an after-action briefing.</p>		

TASK PERFORMANCE/EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5		TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS: NONE

SUPPORTING COLLECTIVE TASKS

Task Number	Task Title
05-1-3006	Establish Job Site Security

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: Four Prime Power Platoon Headquarters
Eight Prime Power Sections

TASK: Install Expedient, Surface-Laid, Electrical-Power Distribution Equipment (05-3-5724)
(TM 5-682) (FM 5-422) (TM 5-302-4)

ITERATION: 1 2 3 4 5 (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The element is ordered to install an expedient, surface-laid, electrical-power distribution system in support of operations. This task should not be trained in MOPP4.

TASK STANDARDS: The element installs the distribution system in a manner consistent with the mission requirements, the system design criteria, and the approved procedures for installing surface-laid distribution systems and equipment.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
1. The element establishes job site security. * 2. The element leader performs construction management functions. a. Prepared the bill of materials (BOMs) for the project. b. Prepared the critical-path method (CPM) diagram for the project. c. Ensured that construction materials were available. d. Assembled work crews and assigned their responsibilities. e. Coordinated the requirements for nonorganic construction support. * 3. The element leader conducts a work project safety briefing. a. Reviewed the requirements for wearing proper safety equipment and clothing. b. Reviewed the requirements for using ground guides for vehicles and materials-handling equipment. c. Reviewed the requirements for using correct hand-and-arm signals to communicate boom, hook, or fork movement for materials-handling equipment. d. Reviewed the requirements for safe clearance procedures. 4. The element performs an equipment safety inspection. a. Inspected individual safety and protective equipment for serviceability. b. Inspected cable-handling and-laying equipment for serviceability. c. Inspected rigging equipment for serviceability. * 5. The element leader verifies the cable right-of-way selection. 6. The element installs the distribution system. a. Placed the system hardware, materials, and equipment along the right-of-way as required for completion of a system installation. b. Conducted a preinstallation inspection and testing of system electrical equipment. 7. The power plant electrical crew installs expedient distribution system substation equipment. a. Prepared a temporary mounting pad for substation equipment. b. Positioned the substation equipment on the pad. 8. The power plant electrical crew installs surface-laid distribution system cables.		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
a. Laid out the power cables. b. Performed a power cable acceptance test. c. Spliced the power cables. d. Terminated the power cables. e. Connected the power cables into the system. f. Performed a power cable continuity test. g. Installed the distribution system equipment grounds. 9. The power plant electrical crew installs the expedient, surface-laid distribution system and the equipment protective barriers. 10. The element performs the distribution system after-installation inspection and acceptance testing. a. Reviewed the data from the cable acceptance test and verified power cable serviceability. b. Inspected the splices and the terminations for serviceability. c. Ensured the phase sequencing of the power cables. d. Ensured the servicing and proper setup of substation equipment. 11. The element prepares an expedient distribution system according to the built diagram. *12. The element leader prepares an after-action report and conducts a briefing.		

TASK PERFORMANCE/EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5		TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS: NONE

SUPPORTING COLLECTIVE TASKS

Task Number	Task Title
05-1-3006	Establish Job Site Security

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: Four Prime Power Platoon Headquarters
Eight Prime Power Sections

TASK: Install Aerial Electrical Power Distribution Equipment (05-3-5725)
(TM 5-682) (FM 5-422) (TM 5-302-4)

ITERATION: 1 2 3 4 5 (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The element must install an aerial (overhead) electrical power distribution system. A selected and prepared power line right-of-way and line construction plans are available. This task should not be trained in MOPP4.

TASK STANDARDS: The element installs the distribution system according to the system design criteria and the approved procedures for installing aerial distribution systems and equipment.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ul style="list-style-type: none"> * 1. The element establishes job site security. * 2. The element leader performs construction management functions. <ul style="list-style-type: none"> a. Prepared the project bill of materials (BOM). b. Prepared the project critical path method (CPM) diagram. c. Ensured that construction materials were available. d. Assembled the work crew(s) and assigned their responsibilities. e. Coordinated the requirements for nonorganic construction support. * 3. The element leader conducts a work project safety briefing. <ul style="list-style-type: none"> a. Included wearing proper safety equipment and clothing. b. Included using ground guides for vehicles and materials-handling equipment. c. Included using correct hand-and-arm signals to communicate boom, hook, or fork movement for materials-handling equipment. d. Included safe clearance requirements. 4. The element performs an equipment safety inspection. <ul style="list-style-type: none"> a. Inspected individual safety and protective equipment for serviceability. b. Inspected line construction rigging equipment for serviceability. c. Inspected climbing equipment for serviceability. 5. The element verifies the power line right-of-way selection and prepares to install the system. 6. The element installs the aerial distribution system. <ul style="list-style-type: none"> a. Staged the line construction materials. <ul style="list-style-type: none"> (1) Line poles, which are placed along the right-of-way by length as specified by the line construction plan. (2) Line pole hardware and materials, which are placed along the right-of-way as required for completion of line pole preparation. (3) Line cable, which is placed along the right-of-way consistent with the installation plan. b. Installed line poles. <ul style="list-style-type: none"> (1) Preerected the line pole. (2) Excavated pole holes. (3) Erected and positioned the utility line pole. c. Installed line pole hardware. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
d. Installed line conductors. (1) Used safe and approved methods when pulling conductors. (2) Ensured proper sagging of conductor. (3) Used approved methods when tying in conductors. e. Installed system electrical equipment. f. Serviced and set up electrical equipment for operation. 7. The element performs a power line after-installation inspection. a. Inspected conductor splices for serviceability. b. Ensured the phase sequencing of power cables. c. Ensured the servicing and proper setup of distribution equipment. d. Ensured the proper grounding of system equipment. e. Ensured the proper anchoring and guying of poles. * 8. The element leader updates the power line documentation. a. Ensured the preparation of modifications to the system design criteria and specifications. b. Ensured that prints and diagrams were updated with as-built information and data. 9. The element prepares an after-action report and conducts the task completion briefing.		

TASK PERFORMANCE/EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5		TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS: NONE

SUPPORTING COLLECTIVE TASKS

Task Number	Task Title
05-1-3006	Establish Job Site Security

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: Four Prime Power Platoon Headquarters
Eight Prime Power Sections

TASK: Assess for Upgrade of Existing Power Distribution Systems (05-3-5726)
(FM 5-422)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The element is attached or assigned to a fixed-strength unit or organized into an engineer composite service unit. The element is tasked to assess the existing distribution system for upgrade. All personnel and organic equipment are available. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The assessment should be timely and accurate. Upgrade requirements should be determined from information provided by higher headquarters (HQ). The time required to perform this task is increased when conducting it in mission-oriented protective posture (MOPP) 4.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ul style="list-style-type: none"> * 1. The element leader supervises the assessment process. * 2. The element leader receives critical information from higher HQ and/or the civilian utilities element. 3. The assessment team deploys to the site of the distribution system to be assessed. 4. The assessment team performs a work project hazards analysis. <ul style="list-style-type: none"> a. Determined potential mechanical hazards, safety equipment, and protective measures. b. Determined potential electrical hazards, safety equipment, and protective measures. c. Determined potential chemical hazards, safety equipment, and protective measures. * 5. The assessment team leader performs a work project safety briefing. <ul style="list-style-type: none"> a. Reviewed the requirements for wearing proper individual safety equipment and clothing. b. Reviewed the requirements for individual safe conduct on the job. c. Reviewed the requirements for safe hazardous-materials handling. d. Reviewed safe clearance requirements. e. Reviewed job hazard assessment driving safety and environmental concerns. 6. The assessment team performs an assessment to upgrade the distribution system. <ul style="list-style-type: none"> a. Identified the ariel distribution system upgrade requirements. <ul style="list-style-type: none"> (1) Right-of-way. (2) Line pole. (3) Conductor installation method. (4) Line pole hardware. (5) Line pole guy and anchor. (6) Environmental protection. b. Identified underground distribution system upgrade requirements. <ul style="list-style-type: none"> (1) Manhole and/or vault. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
(2) Duct. (3) Environmental protection. c. Identified the distribution system electrical equipment upgrade requirements. (1) Conductor. (2) Distribution transformer. (3) Fuse upgrade. (4) Switch. (5) Circuit breaker. (6) Instrumentation transformer (voltage and/or current). (7) Lightning arrestor. (8) System and/or equipment grounding. (9) Pothead. (10) Power quality control equipment (line-voltage regulator and power factor capacitors). d. Collected system short circuit analysis data. e. Identified the distribution system environmental concerns. 7. The assessment team prepares the distribution system (as found) one-line diagram. * 8. The assessment team leader prepares a system upgrade bill of materials list. * 9. The element leader reports to higher HQ with the final assessment.		

TASK PERFORMANCE/EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS: NONE

SUPPORTING COLLECTIVE TASKS: NONE

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: Eight Prime Power Sections
Four Prime Power Platoon Headquarters

TASK: Assess Power Generation Systems for Damage (05-3-5728)
(FM 5-422) (FM 9-43-2) (TM 9-2350-276-BD)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The element is attached or assigned to a fixed-strength unit or organized into an engineer composite unit. The element is tasked to make an assessment of damage to generation equipment and the needed repairs for the electrical generation systems. All personnel and organic equipment is available. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The assessment is timely and accurate. The assessment includes all pertinent information on damage that has occurred and the requirements for repairing the damage. The time required to perform this task is increased when conducting it in mission-oriented protective posture (MOPP) 4.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ul style="list-style-type: none"> * 1. The element leader supervises the assessment process. 2. The element receives a directive from higher headquarters (HQ) to make an assessment of the battle damage. 3. The assessment team deploys to the site of the generation system to be assessed. 4. The assessment team performs a work project hazards analysis. <ul style="list-style-type: none"> a. Determined potential mechanical hazards, safety equipment, and protective measures. b. Determined potential electrical hazards, safety equipment, and protective measures c. Determined potential chemical hazards, safety equipment, and protective measures. d. Determined nuclear, biological, and chemical (NBC) hazards. * 5. The assessment team leader performs a work project safety briefing. <ul style="list-style-type: none"> a. Reviewed requirements for wearing proper individual safety equipment and clothing. b. Reviewed requirements for individual safe conduct on the job. c. Reviewed requirements for safe hazardous-materials handling. d. Reviewed safe clearance requirements. e. Reviewed job hazard assessment-driven safety and environmental concerns. 6. The assessment team assesses any damage. <ul style="list-style-type: none"> a. Determined damage to the power plant components, including the— <ul style="list-style-type: none"> (1) Generator set(s), prime mover, and auxiliary systems. (2) Generator set(s), alternator, and auxiliary systems. (3) Switch gear. (4) Power plant external fuel supply system. (5) Power plant substation. (6) Power plant external shore power system. b. Determined damage to the aerial distribution system, including the— 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ul style="list-style-type: none"> (1) Lines on the right-of-way. (2) Line poles and/or pole hardware. (3) Line pole guys and anchors. c. Determined damage to the underground distribution system, including the— <ul style="list-style-type: none"> (1) Manholes and vaults. (2) Ducts. d. Determined damage to electrical-equipment subsystems, including the— <ul style="list-style-type: none"> (1) Conductors. (2) Distribution transformers. (3) Fuses. (4) Switches. (5) Circuit breakers. (6) Instrumentation transformer (voltage and/or current). (7) Lightning arrestor. (8) Potheads. (9) Equipment grounds. (10) System grounds. (11) Power quality control equipment (line voltage regulator and power factor capacitors). 7. The assessment team determines logistical support requirements. Estimated the— <ul style="list-style-type: none"> a. Repair parts and/or materials required. b. Tools and equipment required. c. Types of manpower, by technical qualification additional skill identifier (ASI) E5, S2, S3, and U4). d. Time required for performing repairs. e. Cost for performing repairs (within the element capability). 8. The assessment team prepares the system repair bill of materials (BOM). * 9. The element leader prepares an assessment report and notifies higher HQ of the findings. 		

TASK PERFORMANCE/EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS: NONE

SUPPORTING COLLECTIVE TASKS: NONE

ARTEP 5-617-11-MTP

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: Four Prime Power Platoon Headquarters
Eight Prime Power Sections

TASK: Operate Power Generation and Distribution Equipment (05-3-5729)
(FM 5-422) (TM 5-6115-456-15) (TM 5-6120-250-12)
(TM 5-682) (TM 9-6115-604-12)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The element must operate an electrical-power generation plant. The power plant is operational with auxiliary support systems installed. Petroleum, oils, and lubricants (POL), materials, and operator personnel are available. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The element operates the power plant generator set(s) in a safe manner to produce electrical power. Electrical power is produced within the specified voltage and frequency parameters consistent with the power demands of the power grid. The time required to perform this task is increased when conducting it in mission-oriented protective posture (MOPP) 4.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ol style="list-style-type: none"> 1. The element establishes job site security. 2. The element follows the power plant standing operating procedure (SOP). <ol style="list-style-type: none"> a. Defined the duties and responsibilities for the following positions: <ol style="list-style-type: none"> (1) Plant operations supervisor. (2) Shift supervisor. (3) Control room operator. (4) Equipment operator. b. Defined the procedures for the following duties: <ol style="list-style-type: none"> (1) Maintaining power plant operations log(s) and record(s). (2) Putting generator(s) on and off the grid. (3) Coordinating the plant operational requirements, with external sources (grid). (4) Requesting issue or release of clearances and cautions. (5) Handling hazardous material. * 3. The element leader enforces the power plant safety SOPs. * 4. The element leader plans for plant operational shifts. <ol style="list-style-type: none"> a. Determined the required number of shifts. <p>NOTE: Under normal operating conditions (when the unit is at full strength), a three-shift operation (8 hours per shift) is used per 24 hours. For emergency operating conditions, a two-shift operation (12 hours per shift) is used per 24 hours.</p> <ol style="list-style-type: none"> b. Reviewed the operator qualification records. <p>NOTE: Operators must be certified for the specific model of the generator set(s) to be operated.</p> <ol style="list-style-type: none"> c. Assigned shift personnel, duties, and responsibilities. <p>NOTE: Safety requirements for the operation of medium-voltage power plants dictate that a minimum of two individuals be assigned to an operating shift.</p> <ol style="list-style-type: none"> (1) Designated shift leaders. (2) Designated plant control room operators. (3) Designated plant equipment operators. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ul style="list-style-type: none"> (4) Designated an individual with the authority to issue or release safe clearance and caution. (5) Designated an individual with the authority to request issue or release of a safe clearance or caution. (6) Designated an individual to be responsible for coordinating the plant operational requirements with external source(s) (grid). (7) Designated a plant fire marshal. (8) Designated a plant safety noncommissioned officer (NCO). (9) Designated a hazardous-materials NCO. <p>* 5. The element leader conducts a plant operations safety briefing.</p> <ul style="list-style-type: none"> a. Reviewed the requirements for the following: <ul style="list-style-type: none"> (1) Individual safe conduct on the job. (2) Individual alertness and awareness on the job. (3) The proper use of protective clothing and equipment. (4) Observing safe clearances and cautions that were in effect. b. Instructed individual on their responsibility for reporting unsafe acts and working conditions. c. Related safety as applicable to visitors. <p>6. The element conducts plant operations.</p> <ul style="list-style-type: none"> a. Operated the plant in a safe manner and according to procedures prescribed for medium-voltage power plants. b. Met changing mission requirements through timely coordination with the consumer. c. Operated the plant to meet and maintain mission-prescribed power output parameters. d. Ensured that supplies, materials, tools, and equipment for plant operations were available. e. Performed operator preventive maintenance checks and services (PMCS) on generation equipment and auxiliary support systems. f. Maintained plant operations, safety, and individual equipment, maintenance, and historical records. <p>7. The power plant operations crew operates the power plant.</p> <ul style="list-style-type: none"> a. Performed before-operations PMCS. b. Set up generating equipment and auxiliary support systems for plant start-up operations, as necessary. c. Initiated generating equipment start-up. d. Operated generating equipment. e. Communicated the status and changing conditions of plant operations with other plant operators when operating on a multiple-plant grid. f. Performed during-operations checks and services. g. Initiated emergency operation procedures, as necessary. h. Initiated generating equipment shutdown operations. i. Performed after-operation checks and services. <p>8. The element prepares an after-action report (AAR).</p> <p>* 9. The element leader communicates the completion of plant operations to higher headquarters (HQ).</p>		

TASK PERFORMANCE/EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS: NONE

SUPPORTING COLLECTIVE TASKS: NONE

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: Four Prime Power Platoon Headquarters
Eight Prime Power Sections

TASK: Perform Electrical-Power Generation Equipment Organizational Maintenance Operations (05-3-5730)

(FM 5-422)

(DA PAM 738-750)

(TM 9-6115-604-12)

(AR 710-2)

(TM 5-6115-456-15)

(TM 9-6140-200-14)

(DA FORM 2407)

(TM 5-682)

ITERATION: 1 2 3 4 5 (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The element must conduct the maintenance program and perform organizational maintenance on a power plant. The element maintains the power plant and auxiliary support systems equipment in a safe, serviceable, and operational condition. This task should not be trained in MOPP4.

TASK STANDARDS: The element performs organizational maintenance on the power plant and auxiliary support systems equipment according to regulations, higher headquarters (HQ) directives, item specific technical manuals (TMs), and approved maintenance procedures.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ol style="list-style-type: none"> 1. The element follows standing operating procedures (SOPs) for the power plant organizational maintenance program. <ol style="list-style-type: none"> a. Defined the duties and responsibilities of organizational maintenance personnel. b. Defined the procedures for conducting organizational maintenance shop operations. c. Defined the procedures for inventory and control of maintenance shop tools, sets, kits, outfits, and individually assigned tool kits. d. Defined the procedures for procuring and maintaining the repair shop technical reference library. e. Defined the procedures for procuring and maintaining the maintenance shop Class II, III, and IX supplies and materials. f. Defined the procedures for controlling equipment cannibalization. 2. The element follows the maintenance shop safety regulations and SOPs. <ol style="list-style-type: none"> a. Enforced fire prevention and protection procedures for the maintenance shop. <p>NOTE: This includes appointing an organizational maintenance shop fire marshal.</p> <ol style="list-style-type: none"> b. Enforced hearing conservation and protection procedures. c. Enforced general housekeeping and safety procedures and rules for the maintenance shop. d. Enforced individual work practices, safety procedures, and rules. e. Enforced safe clearance and caution procedures. f. Performed unscheduled safety inspections. g. Conducted daily safety briefings. h. Conducted safety education, training, and counseling. i. Ensured that the serviceability of protective clothing and equipment was done. <ol style="list-style-type: none"> 3. The element maintains the technical reference library for the maintenance shop. <ol style="list-style-type: none"> a. Appointed a maintenance shop librarian. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ul style="list-style-type: none"> b. Ensured that operation and maintenance manuals for equipment and systems were available and up to date. Included the following: <ul style="list-style-type: none"> (1) Manuals for end items of equipment. (2) Manuals for operating systems. (3) Manuals for test, measurement, and diagnostic equipment (TMDE). c. Ensured that the following maintenance publications were available and up to date. Included the following: <ul style="list-style-type: none"> (1) Department of the Army (DA) regulations, such as pamphlets, technical bulletins (TBs), and training circulars (TCs). (2) Corps of Engineers publications, such as architectural engineering instructions (AEI) and engineering technical letters. (3) Miscellaneous publications, such as standard details. d. Ensured that nonmilitary procedures and standards for the maintenance of power plant equipment and systems were available. e. Testing of power plants, distribution system equipment, and other systems were based on standards from the following: <ul style="list-style-type: none"> (1) The American Society for Testing Materials (ASTM). (2) The Institute of Electrical and Electronic Engineers (IEEE). (3) The American Society of Mechanical Engineers (ASME). (4) The American Welding Society (AWS). (5) The American Petroleum Institute (APD). (6) The Society of Automotive Engineers (SAE). <p>4. The element coordinates the supply operations of the maintenance shops.</p> <ul style="list-style-type: none"> a. Inspected the prescribed load list (PLL) and inventory. <ul style="list-style-type: none"> (1) Checked and validated authorized items that were demand-supported (except where exceptions apply). (2) Checked the record of demand for proper information and upkeep. (3) Checked and validated reorder points. (4) Checked the inventory to ensure that stock had been replaced. (5) Checking the inventory for proper storage and serviceability. b. Managed the bench stock list (BSL) and inventory. <ul style="list-style-type: none"> (1) Ensured that the BSL was approved by the appropriate maintenance officer. (2) Checked the stock that was on hand for consistency with the types and quantities of items approved for stock. (3) Checked the inventory for proper storage and serviceability. c. Verified that repair parts and demand-supported shop stock used for maintenance projects were transferred to demand data records. d. Verified the availability and serviceability of tools and TMDE. <p>* 5. The element leader manages the maintenance workforce.</p> <ul style="list-style-type: none"> a. Assembled the organizational maintenance work crew, assigning the supervisor's responsibilities to include designating personnel for the following: <ul style="list-style-type: none"> (1) The electrical maintenance crew, and a chief for this crew. (2) The mechanical maintenance crew, and a chief for this crew. (3) The instrumentation maintenance crew, and a chief for this crew. b. Assigned an organizational maintenance shop toolroom keeper. c. Assigned a maintenance shop supply clerk. <p>6. The element coordinates external (intermediate) maintenance support requirements.</p> <ul style="list-style-type: none"> a. Ensured that the maintenance request was prepared. b. Ensured that the maintenance request register was posted. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>7. The element performs organizational maintenance.</p> <ul style="list-style-type: none"> a. Ensured that organizational maintenance projects were documented and records were maintained. b. Ensured that equipment maintenance and historical records were maintained. c. Ensured that the work performed was within the scope of the organizational maintenance as specified for the specific make and model of the equipment being maintained. d. Ensured that maintenance was accomplished according to the approved maintenance procedures. <p>8. The mechanical maintenance crew performs organizational maintenance on the mechanical equipment and systems of the power plant.</p> <ul style="list-style-type: none"> a. Requested and applied safe clearances. b. Requested and applied cautions. c. Troubleshoot mechanical equipment and systems. d. Performed scheduled preventative and predictive organizational maintenance on mechanical equipment. e. Performed organizational repairs on mechanical equipment breakdowns. f. Released and removed safe clearances. g. Released and removed cautions. h. Accounted for repair parts and materials used. <p>9. The electrical maintenance crew performs organizational maintenance on the electrical equipment and systems of the power plant.</p> <ul style="list-style-type: none"> a. Requested and applied safe clearances. b. Requested and applied cautions. c. Troubleshoot electrical equipment and systems. d. Performed scheduled preventative and predictive organizational maintenance on electrical equipment. e. Performed organizational repairs on electrical equipment breakdowns. f. Released and removed safe clearances. g. Released and removed cautions. h. Accounted for repair parts and materials used. <p>10. The instrumentation maintenance crew performs organizational maintenance on instrumentation equipment and systems of the power plant.</p> <ul style="list-style-type: none"> a. Requested and applied safe clearances. b. Requested and applied cautions. c. Troubleshoot instrumentation equipment and systems. d. Performed scheduled preventative and predictive organizational maintenance on instrumentation equipment. e. Performed organizational repairs on instrumentation equipment breakdowns. f. Released and removed safe clearances. g. Released and removed cautions. h. Accounted for repair parts and materials used. <p>*11. The element leader prepares battlefield-damaged power plant equipment for evacuation.</p> <p>*12. The element leader prepares the equipment readiness report on the power plant.</p>		

TASK PERFORMANCE/EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5		TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS: NONE

SUPPORTING COLLECTIVE TASKS: NONE

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: Four Prime Power Platoon Headquarters
Eight Prime Power Sections

TASK: Perform Electrical-Power, Distribution Equipment Organizational Maintenance Operations (05-3-5731)

(FM 4-30.3)

(AR 710-2)

(DA PAM 738-750)

(FM 5-422)

(TM 5-682)

(TM 9-6140-200-14)

ITERATION: 1 2 3 4 5 (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The element is given standing operating procedures (SOPs) for the distribution system organizational maintenance program. This task should not be trained in MOPP4.

TASK STANDARDS: The element performs the organizational maintenance on the distribution system and equipment according to the applicable regulations, higher headquarters (HQ) directives, item specific technical manual (TMs), and approved maintenance procedures for distribution systems. The element maintains distribution systems and equipment in a safe, serviceable, and operational condition.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ol style="list-style-type: none"> 1. The element establishes job site security. 2. The element follows standing operating procedures (SOPs) for the distribution system organizational maintenance program. <ol style="list-style-type: none"> a. Defined the duties and responsibilities of the distribution system organizational maintenance personnel. b. Defined the procedures for conducting distribution system organizational maintenance, which includes— <ol style="list-style-type: none"> (1) Conducting preventative and predictive maintenance. (2) Preparing preventative and predictive maintenance records. (3) Documenting and controlling organizational maintenance shop work projects. (4) Documenting and controlling organizational maintenance repair parts and materials. (5) Requesting external (intermediate) maintenance support on distribution systems and equipment. c. Defined the procedures for the inventory and control of distribution maintenance shop tools, sets, kits and outfits, and individual assigned tool kits. d. Defined the procedures for procuring and maintaining the technical reference library for the maintenance shop. e. Defined the procedures for procuring and maintaining the supplies and materials for the maintenance shop. f. Defined the procedures for controlling cannibalization of distribution system equipment. 3. The element follows the occupational health and safety SOPs for the maintenance shop. <ol style="list-style-type: none"> a. Enforced the fire prevention and protection procedures for the maintenance shop and appointed a maintenance shop fire marshal. b. Enforced the general housekeeping and safety procedures and rules for the maintenance shop. c. Enforced individual work practices, safety procedures, and rules. d. Enforced safe clearance and caution procedures. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ul style="list-style-type: none"> e. Performed unscheduled safety inspections. f. Conducted safety briefings. g. Conducted safety education, training, and counseling. <p>4. The element maintains the technical reference library for the equipment maintenance shop.</p> <ul style="list-style-type: none"> a. Appointed a maintenance shop librarian. b. Ensured that operation and maintenance manuals for equipment and systems were available and up to date. Operation and maintenance technical manuals (TMs) include— <ul style="list-style-type: none"> (1) Manuals for end items of equipment. (2) Manuals for operating systems. (3) Manuals for test, measurement, and diagnostic equipment (TMDE). c. Ensured that the following maintenance publications were available and up to date: <ul style="list-style-type: none"> (1) Department of Army (DA) regulations, pamphlets, technical bulletins (TBs), and training circulars (TCs). (2) Corp of Engineers publications, architectural engineering instructions (AEIs), and engineering technical letters. (3) Department of Defense (DOD) publications and standard details. d. Ensured the availability of nonmilitary procedures and standards for maintenance of power plant equipment and systems. Based the testing of power plant distribution system equipment and other systems on the following standards: <ul style="list-style-type: none"> (1) American Society for Testing and Materials (ASTM). (2) Institute of Electrical and Electronic Engineering (IEEE). (3) American Society of Mechanical Engineers (ASME). (4) American Welding Society (AWS). (5) American Petroleum Institute (API). (6) Society of Automotive Engineers (SAE). <p>* 5. The element leader manages the supply operations for the maintenance shop.</p> <ul style="list-style-type: none"> a. Inspected the prescribed load list (PLL) and inventory— <ul style="list-style-type: none"> (1) Checked and validated authorized items that are demand-supported (excluding applicable exceptions). (2) Checked the record of demand for proper information and upkeep. (3) Checked and validated reorder points. (4) Checked the inventory and ensured that stock had been replaced. (5) Checked the inventory for proper storage and serviceability. b. Managed the bench stock list (BSL) and inventory. Checked the— <ul style="list-style-type: none"> (1) BSL to ensure that it was approved by the appropriate maintenance officer. (2) Stock on hand for consistency with the types and quantities of items approved for stock. (3) Inventory for proper storage and serviceability. c. Ensured that repair parts and demand-supported shop stock used for maintenance projects were transferred to the demand data records. <p>* 6. The element leader manages the maintenance work force.</p> <ul style="list-style-type: none"> a. Designated an equipment maintenance subshop supervisor and assigned crew members. b. Assigned a maintenance shop toolroom keeper. <p>7. The element performs equipment maintenance.</p> <ul style="list-style-type: none"> a. Ensured that organizational maintenance projects were documented and records were maintained. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ul style="list-style-type: none"> b. Ensured that equipment maintenance and historical records were maintained. c. Ensured that the work performed was within the scope of the organizational maintenance, as specified for the specific item of equipment being maintained. d. Ensured that maintenance was accomplished according to the approved maintenance procedures. e. Ensured that maintenance and serviceability of the TMDE was accomplished. f. Ensured that maintenance and serviceability of the high-voltage tools and equipment was accomplished. g. Ensured that maintenance and serviceability of personal safety clothing and equipment was accomplished. h. Ensured that maintenance and serviceability of power line construction tools was accomplished. i. Monitored the distribution equipment oil and gas analysis program. <p>8. The power plant electrical maintenance crew performs organizational maintenance on power rapidly in-place modular equipment systems (PRIMES).</p> <ul style="list-style-type: none"> a. Requested and applied safe clearances. b. Requested and applied cautions. c. Troubleshoot electrical equipment and systems. d. Performed organizational maintenance on scheduled electrical equipment. e. Performed organizational repairs on electrical equipment breakdowns. f. Released and removed safe clearances. g. Released and removed cautions. h. Accounted for repair parts and materials used. <p>9. The power line maintenance crew performs organizational maintenance on the distribution systems and equipment.</p> <ul style="list-style-type: none"> a. Performed aerial (overhead) organizational maintenance. b. Performed underground organizational maintenance. <ul style="list-style-type: none"> (1) Requested and applied safe clearances. (2) Requested and applied cautions. (3) Troubleshoot distribution system electrical equipment. (4) Performed scheduled organizational maintenance on distribution system electrical equipment. (5) Performed organizational repairs on distribution system electrical equipment breakdowns. (6) Performed scheduled inspections and testing on utility poles. (7) Released and removed safe clearances. (8) Released and removed cautions. (9) Accounted for repair parts and materials used. <p>*10. The element leader prepares battlefield-damaged distribution equipment for evacuation.</p> <p>*11. The element leader prepares the materials condition status report for power distribution equipment.</p>		

TASK PERFORMANCE/EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5		TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS: NONE

SUPPORTING COLLECTIVE TASKS: NONE

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: Company Headquarters
 Four Prime Power Platoon Headquarters
 Eight Prime Power Sections

TASK: Perform Power Plant and Distribution Equipment Shipment (05-3-5733)
 (FM 5-422) (DA FORM 2258) (FM 5-34)
 (TM 5-6115-456-15) (TM 5-6120-250-12) (TM 5-682)

ITERATION: 1 2 3 4 5 (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The element must move the power plant and distribution equipment from a station to a designated port of debarkation or site of operation. Specific model generator set, auxiliary support equipment, and distribution system equipment is specified. This task should not be trained in MOPP4.

TASK STANDARDS: The element coordinates transportation, moving, and/or shipping requirements. It prepares, moves, and/or ships the power plant and distribution system equipment to arrive at the port of debarkation or site of operation consistent with the mission plans.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>* 1. The element leader coordinates the external support required for moving equipment.</p> <ul style="list-style-type: none"> a. Coordinated transportation requirements. b. Coordinated requirements for materials-handling equipment. c. Coordinated requirements for the fabrication of packing and crating containers. <p>2. The element assesses the operational condition of the power plant and distribution equipment to be shipped.</p> <ul style="list-style-type: none"> a. Determined if any uncorrected faults existed that could cause an equipment deadline. b. Determined serviceability of auxiliary support systems and equipment. c. Ensured that the equipment uncorrected fault record was updated. <p>3. The element inventories the equipment and materials to be shipped.</p> <ul style="list-style-type: none"> a. Inventoried the major end items of equipment. b. Inventoried the power plant and distribution system installation. c. Inventoried start-up supplies and materials. d. Ensured that the prescribed load list (PLL) was inventoried. e. Ensured that special items and materials, as specified in the mission directive, were accounted for and/or inventoried. f. Ensured that special tools for installing and preparing for a specific model generator set and/or items of distribution equipment for operation were inventoried. <p>4. The element obtains materials and tools used in shipping.</p> <p>5. The element performs a work project hazard assessment.</p> <p>* 6. The element leader performs a work project safety briefing.</p> <ul style="list-style-type: none"> a. Reviewed the requirements for wearing proper individual safety equipment and clothing. b. Reviewed the requirements for using the vehicle and materials-handling equipment ground guide. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ul style="list-style-type: none"> c. Reviewed the requirements for using correct hand signals to communicate boom, hook, or fork control movements of materials-handling equipment. d. Reviewed the requirements for individual safe conduct on the job. e. Reviewed the requirements for safe use and handling of flammable, combustible, and hazardous materials. f. Reviewed the requirements and procedures for safe handling of pest and rodent control (quarantine) materials. g. Reviewed the requirements for safe clearance and caution procedures. h. Reviewed job-hazard, assessment-driven safety and environmental concerns. <p>7. The element prepares equipment and materials for shipment.</p> <ul style="list-style-type: none"> a. Ensured that appropriate Department of the Army (DA) forms were prepared. b. Ensured that mechanical, electrical, and instrumentation equipment was processed according to approved procedures. c. Ensured that components and materials were packed and crated according to approved procedures. <p>NOTE: Recommended crating methods should be used and information tags should be prepared.</p> <ul style="list-style-type: none"> d. Ensured that equipment for quarantine was prepared as directed by the shipping instructions. e. Prepared and used a generator set internal load plan. f. Ensured that the PLL and/or the additional authorization list (AAL) was packed. g. Ensured that equipment overpack items were packed. <p>8. The element develops the loading plan and directs the loading of auxiliary components, materials, and supplies into individual generator sets.</p> <p>9. The element inspects shipping labels for proper preparation and correct addresses.</p> <p>10. The element directs the loading of power plant and distribution equipment on the transport vehicle.</p> <ul style="list-style-type: none"> a. Ensured that the equipment loading plan was used. b. Inspected the rigging equipment before use. c. Verified the materials-handling equipment lifting capacity and general operation condition. d. Inspected the rigging and loading of equipment on the transport vehicle. <p>11. Element members rig and load equipment.</p> <p>12. The element coordinates a deployment method either by air, rail, or sea.</p> <p>13. The element coordinates deployment by line hauling.</p> <ul style="list-style-type: none"> a. Coordinated and/or conducted a road reconnaissance. b. Briefed transport operator(s) on critical road information. c. Briefed transport operator(s) on point-of-destination and point-of-contact at destination. <p>*14. The element leader disseminates information on completion of shipping of equipment according to the mission directive.</p>		

TASK PERFORMANCE/EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5		TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS: NONE

SUPPORTING COLLECTIVE TASKS: NONE

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: Company Headquarters
Four Prime Power Platoon Headquarters
Eight Prime Power Sections

TASK: Transport Casualties (for Units Without Medical Treatment Personnel) (08-2-C316.05-T01A)
(FM 8-10-6) (AR 200-1) (AR 385-10)
(FM 12-6) (FM 3-21.38)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: Unit personnel are wounded and some may be chemically contaminated. The unit has no organic medical-treatment personnel. Threat force contact has been broken. Unit defenses have been reorganized. Casualties are transported from defensive positions to designated casualty collection points. All methods of transport are employed. Some wounded enemy prisoner of war (EPW) casualties may require transport. This task is performed simultaneously with other reorganization tasks. The tactical standing operating procedure (TACSOP) and higher headquarters (HQ) operation order (OPORD) are available. Simplified collective-protection equipment (SCPE) is on hand and/or field-expedient and natural shelters are available. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: Casualties are transported as soon as the tactical situation permits according to the TACSOP, the OPORD, the provisions of the Geneva Convention, and Field Manual (FM) 8-10-6. The time required to perform this task is increased when conducting it in mission-oriented protective posture (MOPP) 4.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>* 1. The commander and leaders supervise the transport of casualties.</p> <ul style="list-style-type: none"> a. Monitored casualty transport operations for compliance with FM 8-10-6 and the TACSOP. b. Identified casualty collection points. c. Identified transport requirements. d. Supervised the preparation of casualties for transport. e. Coordinated the transport of casualties from the unit area with the higher HQ personnel element according to FM 8-10-6 and the TACSOP. f. Coordinated security requirements for the pickup site with subelements and the higher HQ operations element. g. Disseminated transport information to unit personnel. h. Forwarded the casualty feeder report and witness statements to the higher HQ personnel element according to FM 12-6 and the TACSOP. <p>2. Element personnel prepare casualties for transport.</p> <ul style="list-style-type: none"> a. Provided first aid treatment to casualties. <p>NOTE: See Task 08-2-0003.05-T01A for detailed treatment procedures.</p> <ul style="list-style-type: none"> b. Reported casualties. c. Collected classified documents, such as signal operation instructions (SOI), standing signal instructions (SSI), maps, overlays, and key lists. d. Secured the custody of organizational equipment according to the TACSOP. e. Forwarded casualty feeder reports to the unit HQ according to the TACSOP. <p>3. Element personnel transport casualties to casualty collection points using manual carries.</p>		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ul style="list-style-type: none"> a. Selected the type of manual carry appropriate to the situation and the injury. b. Transported the casualty without causing further injury according to FM 8-10-6. <p>4. Unit personnel transport casualties to casualty collection points using litter carries.</p> <ul style="list-style-type: none"> a. Identified the litter teams. b. Constructed an improvised litter from available material, as required. c. Secured the casualty on the litter. d. Transported the casualty without causing further injury according to FM 8-10-6. <p>5. Element personnel transport casualties to a medical-treatment facility (MTF) using available vehicles.</p> <ul style="list-style-type: none"> a. Loaded the maximum number of casualties according to FM 8-10-6. b. Secured casualties in the vehicle. c. Transported casualties without causing further injury according to FM 8-10-6. <p>* 6. The commander and leaders request an aeromedical evacuation.</p> <ul style="list-style-type: none"> a. Transmitted the request according to FM 8-10-6, the OPORD, and the TACSOP. b. Selected the landing site (which provides sufficient space for helicopter hover, landing, and take-off) according to FMs 8-10-6 and 3-21.38. c. Supervised the removal of all dangerous objects likely to be blown about before aircraft arrival. d. Supervised the security of the landing site according to the TACSOP. e. Ensured that the landing zone (LZ) was appropriately marked (light sets, smoke, and so forth) according to the TACSOP, if required. <p>7. Element personnel assist in loading the ambulance.</p> <ul style="list-style-type: none"> a. Employed the proper carrying and loading techniques according to FM 8-10-6. b. Loaded casualties in the sequence directed by the crew. c. Loaded casualties without causing unnecessary discomfort. d. Employed safety procedures according to Army Regulation (AR) 385-10, FM 8-10-6, and the TACSOP. e. Employed environmental-protection procedures according to AR 200-1 and the TACSOP. <p>8. Element personnel transport chemically contaminated casualties.</p> <ul style="list-style-type: none"> a. Assumed MOPP4. b. Marked contaminated casualties according to the TACSOP. c. Notified the supporting MTF that contaminated casualties were en route to their location. d. Transported casualties directly to a designated decontamination and treatment station. e. Protected casualties from further contamination during transport. <p>9. Unit personnel transport EPW casualties.</p> <ul style="list-style-type: none"> a. Maintained security of EPW casualties according to the TACSOP. b. Searched EPW casualties for weapons and ordnance before transport. c. Transported EPW casualties according to the provisions of the Geneva Convention and the TACSOP. 		

TASK PERFORMANCE/EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS: NONE

SUPPORTING COLLECTIVE TASKS: NONE

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: Company Headquarters
 Four Prime Power Platoon Headquarters
 Eight Prime Power Sections

TASK: Conduct Battlefield Stress Reduction and Stress Prevention Procedures (08-2-R303.05-T01A)
 (FM 8-51) (FM 22-51)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: Combat health support (CHS) operations have commenced. Element personnel are deployed in support of higher headquarters (HQ) operations. The sleep plan and the tactical standing operating procedure (TACSOP) to manage battle fatigue (BF) soldiers have been developed. Personnel have been cross-trained on critical tasks. Operations are continuous over a prolonged period, causing stressful situations for personnel. The commander has directed that procedures for managing battlefield stress be implemented. Simplified collective-protective equipment (SCPE) is on hand or field-expedient and natural shelters are available.

NOTE: Due to the technical knowledge and skills required to perform some military occupational specialty (MOS) specific tasks, caution must be exercised when cross-training personnel. For instance, nonmedical personnel cannot be cross-trained to perform MOS specific medical tasks. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The element applies techniques that counter battlefield stress. At mission-oriented protective posture (MOPP) 4, performance degradation factors increase the need for stress prevention implementation. The time required to perform this task is increased when conducting it in MOPP4.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ul style="list-style-type: none"> * 1. The commander and leaders perform stress prevention actions. <ul style="list-style-type: none"> a. Issued warning orders, operation orders (OPORDs), and fragmentary orders (FRAGOs) to the lowest possible level. b. Provided soldiers with an accurate assessment of the friendly and enemy situation. c. Briefed the leaders' intention to all unit personnel. d. Spoke positively concerning the unit missions, purpose, and abilities. e. Encouraged a positive attitude throughout the unit. f. Instituted an information dissemination plan designed to quell and prevent rumors. g. Informed personnel of the availability of religious support. * 2. The commander and leaders implement the sleep plan. <ul style="list-style-type: none"> a. Provided a safe and secure area away from vehicles and other high-noise activities. b. Adjusted the sleep plan as dictated by the tactical situation. c. Enforced the sleep plan according to the TACSOP. * 3. Leaders implement task rotation or restructuring procedures. <ul style="list-style-type: none"> a. Alternated cross-trained unit personnel on critical tasks, as required. b. Rotated unit personnel between demanding and nondemanding tasks. c. Assigned two soldiers to function independently on tasks requiring a high degree of accuracy. d. Adjusted task rotation policies and procedures to the tactical situation. * 4. Leaders implement stress coping and management techniques. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ul style="list-style-type: none"> a. Integrated new unit members into the unit immediately. b. Assisted soldiers in resolving home front problems. c. Implemented a buddy system to observe signs of stress or BF among soldiers and leaders. d. Provided instruction on relaxation techniques to all personnel before deployment. e. Conducted after-action debriefings. f. Scheduled a critical-event debriefing after any traumatic event according to Field Manual (FM) 22-51. g. Conducted unit award, decoration, recognition, and memorial ceremonies. <p>* 5. The commander and leaders implement stress control techniques.</p> <ul style="list-style-type: none"> a. Implemented a plan to deal with mild, seriously stressed, or BF cases. b. Assigned soldiers showing signs of severe stress or BF to simple tasks. c. Directed personnel to be supportive of stressed or BF soldiers. d. Referred soldiers showing signs of serious stress or BF to the supporting medical-treatment facility (MTF) for evaluation. e. Reintegrated return-to-duty (RTD) soldiers into their specific element. <p>6. Element personnel employ stress prevention measures.</p> <ul style="list-style-type: none"> a. Maintained a positive attitude concerning the unit mission, purpose, and abilities. b. Complied with the commander's sleep plan. c. Identified other soldiers with signs of stress or BF. d. Provided immediate buddy aid support. e. Reported signs of stress or BF in other soldiers to their immediate supervisor. f. Accepted new unit members immediately. g. Practiced relaxation techniques at appropriate times and places. h. Participated in buddy systems and after-action debriefings. 		

TASK PERFORMANCE/EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS: NONE

SUPPORTING COLLECTIVE TASKS

Task Number	Task Title
05-2-7008	Prepare an Operation Order (OPORD) (Company/Platoon)

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: Company Headquarters
 Four Prime Power Platoon Headquarters
 Eight Prime Power Sections

TASK: Perform Field Sanitation Functions (08-2-R315.05-T01A)
 (FM 21-10) (AR 200-1) (AR 385-10)
 (AR 40-5) (FM 4-25.12)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: Health hazards exist that require field sanitation measures. The element is in the field without permanent sanitation or water facilities. The commander has selected and trained the unit field sanitation team (FST). The combat health support (CHS) plan, the tactical standing operating procedure (TACSOP), and the higher headquarters (HQ) operation order (OPORD) are available. All required sanitation equipment is available. Field sanitation measures are continuous and are performed simultaneously with other operational tasks. Simplified collective-protection equipment (SCPE) is on hand and field-expedient and natural shelters are available. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The FST performs field sanitation measures according to the TACSOP, Field Manuals (FMs) 21-10 and 4-25.12, and the commander's guidance. At mission-oriented protective posture (MOPP) 4, only minimum-essential field sanitation activities are performed. The time required to perform this task is increased when conducting it in MOPP4.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>* 1. The commander directs field sanitation measures.</p> <ul style="list-style-type: none"> a. Directed field sanitation activities to counter a medical threat. b. Monitored field sanitation activities for compliance with FMs 21-10 and 4-25.12 and the TACSOP. c. Enforced individual field sanitation measures. d. Requested assistance from the supporting preventive medicine (PVNTMED) element for sanitation problems that were beyond the expertise of the unit FST according to the TACSOP and the OPORD. e. Corrected field sanitation deficiencies. f. Reported field sanitation deficiencies that could not be corrected by unit personnel to the FST. g. Enforced safety procedures according to Army Regulation (AR) 385-10 and the TACSOP. h. Enforced environmental-protection procedures according to AR 200-1 and the TACSOP. <p>2. The FST supervises the unit field sanitation measures.</p> <ul style="list-style-type: none"> a. Maintained the field sanitation basic load according to AR 40-5 and FM 4-25.12. b. Supervised the distribution of field sanitation basic-load items according to AR 40-5 and FM 4-25.12. c. Tested the unit water supply for the required chlorine residual level according to FM 4-25.12 and the TACSOP. d. Inspected water containers and trailers according to FM 4-25.12 and the TACSOP. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ul style="list-style-type: none"> e. Monitored personnel to ensure that they used personal protective measures (skin, clothing, and bed net repellent) against arthropods and rodents according to applicable directives and the commander's guidance. f. Conducted rodent surveys, as required. g. Monitored personnel for the employment of correct hygiene measures. h. Monitored waste facilities and procedures for compliance with AR 40-5, FM 4-25.12, and the TACSOP, as required. i. Inspected latrines and urinals according to FM 4-25.12 and the TACSOP. j. Inspected liquid and solid waste-disposal facilities to ensure their compliance with AR 40-5, FM 4-25.12, and the TACSOP. k. Inspected hand-washing devices according to FM 4-25.12 and the TACSOP. l. Inspected the transport, storage, preparation, and service of food for compliance with FM 4-25.12 and the TACSOP. m. Provided advice, recommendations, and training requirements to the commander. n. Enforced safety procedures according to AR 385-10 and the TACSOP. o. Enforced environmental-protection procedures according to AR 200-1 and the TACSOP. <p>3. Unit personnel employ field sanitation measures.</p> <ul style="list-style-type: none"> a. Maintained the prescribed load of water purification materials according to AR 40-5, FM 21-10, and the TACSOP. b. Prepared nonpotable water for personal use according to FM 21-10 and the TACSOP. c. Consumed only water designated as potable. d. Maintained latrines and hand-washing facilities according to FM 21-10 and the TACSOP. e. Employed preventive measures against cold and heat injuries. f. Employed personal-hygiene measures. g. Employed preventive measures against arthropod and rodent infestation, to include using skin, clothing, and bed net repellent. h. Reported field sanitation deficiencies to the FST. i. Employed safety procedures according to AR 385-10 and the TACSOP. j. Employed environmental-protection procedures according to AR 200-1 and the TACSOP. 		

TASK PERFORMANCE/EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS: NONE

SUPPORTING COLLECTIVE TASKS: NONE

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: Company Headquarters
 Four Prime Power Platoon Headquarters
 Eight Prime Power Sections

TASK: Handle Enemy Prisoners of War (EPWs) (19-3-3106.05-T01A)
 (FM 3-19.40) (AR 190-8) (DD FORM 2745)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The enemy soldiers surrendered or were captured. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The capturing element takes charge of and evacuates the EPWs according to the unit standing operating procedure (SOP) and the search, silence, segregate, speed, safeguard, and tag (5 Ss and T) method. The time required to perform this task is increased when conducting it in mission-oriented protective posture (MOPP) 4.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
1. The element searches the EPWs. <ul style="list-style-type: none"> a. Removed weapons and documents that had intelligence value. b. Returned the personal items of no military intelligence value, such as protective clothing and equipment. c. Furnished receipts to the prisoners for their personal property that was taken. 		
2. The element segregates the EPWs. <ul style="list-style-type: none"> a. Segregated the EPWs by rank, sex, desertion status, civilian status, nationality, and ideology. b. Turned the wounded EPWs over to the medical personnel for evacuation through the medical channels. 		
3. The element silences the EPWs. <ul style="list-style-type: none"> a. Prevented the EPW leaders from giving orders. b. Prevented the EPWs from planning an escape. c. Did not talk in front of the EPWs except to issue orders and maintain discipline. 		
4. The element safeguards the EPWs. <ul style="list-style-type: none"> a. Removed the EPWs from the dangers of the battlefield. b. Did not allow anyone to abuse the EPWs. c. Treated the EPWs humanely. 		
5. The element tags the EPWs with a Department of Defense (DD) Form 2745. <ul style="list-style-type: none"> a. Annotated the date and time of the capture, the capturing unit, the grid coordinates of the capture, and the circumstances of the capture. b. Attached Part A to the EPWs. c. Retained Part B for the unit records. d. Attached Part C to the property. 		
6. The element speeds the EPWs to the rear. <ul style="list-style-type: none"> a. Notified higher headquarters (HQ) that the company had EPWs. b. Removed the EPWs rearward to the nearest military police (MP) collecting point. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
c. Exploited the intelligence information.		

TASK PERFORMANCE/EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS: NONE

SUPPORTING COLLECTIVE TASKS

Task Number	Task Title
05-2-1218	Conduct Report Procedures

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: Company Headquarters
Four Prime Power Platoon Headquarters
Eight Prime Power Sections

TASK: Conduct Unit Level Maintenance Operations (43-2-0001.05-T01A)
(FM 4-30.3) (AR 220-1) (AR 385-40)
(AR 700-138) (AR 750-1) (DA PAM 738-750)
(FM 9-43-2)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The element maintenance personnel receive requests to repair inoperative organic equipment. The element maintenance area is established. The required tools, equipment, and personnel are available. Operators are performing preventive-maintenance checks and services (PMCS) on the equipment. Recovery operations with injured operators on board may be required. The element tactical standing operating procedure (TACSOP) is available. Element maintenance is a continuous task and is performed simultaneously with other internal support and operational tasks. Digital elements have performed functionality checks, and systems are operational. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The element vehicles and equipment are maintained according to the appropriate technical manuals (TMs) and the commander's guidance. Digital elements send and receive reports using frequency-modulated (FM) or digital means. The time required to perform this task is increased when conducting it in mission-oriented protective posture (MOPP) 4.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>* 1. The element commander directs the element maintenance program.</p> <ul style="list-style-type: none"> a. Supervised the implementation of the unit maintenance program to ensure compliance with the commander's guidance and the TACSOP. b. Identified the company operational levels by reviewing the vehicle and equipment status reports. c. Approved the use of controlled exchanges when the required repair parts were not available. d. Approved repairs using the battle damage assessment and repair (BDAR) procedures when the established repair procedures could not be used. e. Checked the materiel condition status report (MCSR) for accuracy and completeness. f. Identified current or anticipated maintenance problems to minimize their impact on element readiness. g. Coordinated the resolution of maintenance problems with the battalion maintenance officer (BMO). h. Forwarded the MCSR to the BMO. i. Conducted periodic inspections of personnel and equipment to ensure that the safety program was enforced. <p>* 2. Section leaders supervise operator maintenance.</p> <ul style="list-style-type: none"> a. Monitored PMCS performance for compliance with the appropriate TMs and the commander's guidance. b. Inspected personnel and equipment to ensure compliance with the safety program. c. Coordinated maintenance assistance with the motor sergeant. d. Monitored the supply of the repair parts for platoon equipment to ensure that the repair parts were on order. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ul style="list-style-type: none"> e. Requested approval for the BDAR through the motor sergeant. f. Maintained the maintenance status of vehicles, weapons, and equipment. g. Provided input for the MCSR to the commander. <p>3. Company personnel perform operator maintenance.</p> <ul style="list-style-type: none"> a. Performed PMCS according to the appropriate TMs. b. Notified the supervisor of any maintenance problems beyond the operator's capability. c. Requested approval for the BDAR through the platoon leader when the established repair procedures could not be used. d. Performed the BDAR according to the appropriate BDAR manual. e. Assisted the unit maintenance personnel with the repairs and services. <p>* 4. The motor sergeant supervises the unit maintenance personnel.</p> <ul style="list-style-type: none"> a. Organized the element maintenance personnel to perform element maintenance activities. b. Supervised The Army Maintenance Management System (TAMMS) and the prescribed load list (PLL) procedures for completeness and accuracy. c. Supervised the repair and the inspection procedures to ensure that they were done safely and according to the appropriate references. d. Requested approval for the BDAR from the commander when the established repair procedures could not be used. e. Supervised the BDAR procedures to ensure that they were done according to the appropriate BDAR manuals. f. Requested approval for controlled exchanges from the commander when the required repair parts were not available. g. Supervised the use of controlled exchanges for compliance with the commander's guidance. h. Notified the platoon or section leaders upon completion of the repairs. i. Supervised the recovery operations to ensure that the correct recovery and safety procedures were used. j. Supervised the Army Oil Analysis Program (AOAP) procedures to ensure that the testing of oil samples was done at the required intervals. k. Coordinated the maintenance status with the platoon leader. l. Provided the unit maintenance status to the commander. <p>5. Unit maintenance personnel repair organic equipment.</p> <ul style="list-style-type: none"> a. Diagnosed faults on the inoperative equipment. b. Requested the required repair parts from the PLL clerk. c. Repaired the equipment according to applicable TMs. d. Requested approval for the BDAR through the motor sergeant when the established repair parts were not available. e. Performed the BDAR according to the appropriate BDAR manual. f. Requested approval for controlled exchanges through the motor sergeant when the required repair parts were not available. g. Performed controlled exchanges. h. Performed a final inspection to ensure quality control of repairs. i. Employed safety procedures to minimize accidents. <p>6. Unit maintenance personnel conduct transactions with support maintenance.</p> <ul style="list-style-type: none"> a. Identified the category of the repair as direct support or higher. b. Corrected unit level deficiencies. c. Prepared the required documentation for submission to support maintenance. d. Evacuated the equipment to support maintenance. e. Verified the completion of repairs. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
f. Picked up the equipment upon the completion of repairs. 7. Unit maintenance personnel perform administrative-support functions. a. Maintained the PLL. b. Requested repair parts for element equipment. c. Turned in unserviceable, repairable items. d. Maintained technical publications on all organic equipment. 8. Unit maintenance personnel recover disabled vehicles. a. Verified the location of the disabled vehicle. b. Identified the best route to the vehicle, given the tactical situation. c. Coordinated indirect-fire support along the route with the Intelligence Officer (US Army) (S2) and the Operations and Training Officer (US Army) (S3). d. Maintained security while en route to the recovery site. e. Established local security at the recovery site. f. Removed casualties from vehicles. g. Treated casualties. h. Requested medical assistance, if required. i. Evacuated casualties, if required. j. Performed a battle damage assessment to determine if repairs were required. k. Performed repairs and the BDAR on site, if possible. l. Recovered nonrepairable equipment back to the unit maintenance area according to the established recovery procedures. m. Requested the disposition of unrecoverable equipment from the commander. n. Conducted salvage operations to remove all usable equipment. o. Prepared vehicles for destruction according to the TACSOP.		

TASK PERFORMANCE/EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS: NONE

SUPPORTING COLLECTIVE TASKS: NONE

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: Company Headquarters
Four Prime Power Platoon Headquarters
Eight Prime Power Sections

TASK: Prepare an Operation Order (OPORD) (Company/Platoon) (05-2-7008)
(FM 5-71-2) (FM 5-34)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The company is performing tactical operations in a contemporary operating environment. The company receives a new mission that requires the preparation of an OPORD. Digital units have performed functionality checks, and systems are operational. The unit is linked to the task force (TF) tactical operations center (TOC). Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The OPORD follows the intent of the commander, is understandable, and contains all of the information necessary to accomplish the mission. Digital units send and receive orders and reports using frequency-modulated (FM) or digital means. The time required to perform this task is increased when conducting it in mission-oriented protective posture (MOPP) 4.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>* 1. The element leader writes an OPORD following the five-paragraph format. NOTE: Digital units write and disseminate the OPORD using the Army Battle Command System (ABCS), perform collaborative planning, and submit orders/requests and reports according to the unit tactical standing operating procedure (TACSOP).</p> <ul style="list-style-type: none"> a. Ensured that the situation paragraph contained information about the enemy forces, friendly forces, attachments, and detachments. b. Stated the mission clearly. Included who, what, when, where, and why. c. Ensured that the execution paragraph included the intent of the commander, the subordinate unit instructions, and coordinating instructions. <p>NOTE: Address any environmental considerations in the coordinating instructions. Include specific measures to minimize environmental damage.</p> <ul style="list-style-type: none"> d. Ensured that the service support paragraph contained combat service support (CSS) and unit support instructions. If the paragraph was too long, used an annex. Otherwise, used the following paragraph sample format: <ul style="list-style-type: none"> (1) Material and services. (2) Medical. (3) Personnel. (4) Civil military. (5) As necessary. e. Ensured that the command and signal paragraphs specified the command post (CP) locations for supporting the units and gave the instructions for coordinating and establishing communications by different means (digital and FM). <p>* 2. The element leader ensures that the necessary information is included and briefed to the subordinate elements.</p> <p>* 3. The element leader ensures that the order is disseminated or briefed in time to satisfy the one-third/two-third rule (allowing subordinates two-thirds of the available time).</p>		

TASK PERFORMANCE/EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS: NONE

SUPPORTING COLLECTIVE TASKS

Task Number	Task Title
05-1-1389	Identify Geospatial Support Requirements
05-1-1391	Request a Standard Geospatial Product
05-1-1393	Request Nonstandard Geospatial Products
05-2-1380	Identify Terrain Information Requirements
05-4-1372	Disseminate Terrain Information Product
05-4-1376	Perform a Geospatial Collection Effort
05-6-0088	Coordinate Geospatial Operations

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: Four Prime Power Platoon Headquarters
Eight Prime Power Sections

TASK: Provide Liaison (05-4-1379)
(FM 5-100) (FM 34-2) (FM 5-100-15)

ITERATION: 1 2 3 4 5 (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The element has been requested by higher headquarters (HQ) to determine the support requirements. The element performs liaison with lower, lateral, and higher echelons. This task should not be trained in MOPP4.

TASK STANDARDS: The element plans operations and advises the supported commander on the availability, development, and use of the element services.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ul style="list-style-type: none"> * 1. The element leader establishes analog, digital, or satellite communications with the supported unit and higher HQ. * 2. The element leader interfaces directly with division staffs, corps staffs, theater Army staffs, and (on occasion) Department of Defense (DOD) civilian agencies. NOTE: From a division standpoint, coordination between the liaison officer (LNO) and the assistant division engineer (ADE) is necessary for support provided by all nondivisional engineer elements. * 3. The element leader determines the requirements and advises the supported commander on the use of supporting elements and capabilities. 4. The element provides the mission-specific requirements. * 5. The element leader conducts liaison with staff elements and support elements to ensure that the mission requirements are understood and met. 6. The element submits reports and requests through the supported agency through the LNO. 		

TASK PERFORMANCE/EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5		TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS: NONE

SUPPORTING COLLECTIVE TASKS

Task Number	Task Title
05-2-1218	Conduct Report Procedures
11-5-0101.05-T01A	Install, Operate, and Maintain a Single-Channel Voice Radio Station (AM)

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: Four Prime Power Platoon Headquarters
Eight Prime Power Sections

TASK: Maintain Platoon Strength (12-3-0001.05-T01A)
(FM 12-6) (DA FORM 1155) (DA FORM 1156)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: Casualties have occurred and replacements are arriving. A lull in the battle has occurred. The digital units have performed functionality checks, and systems are operational. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: A personnel status report (PSR), which accounts for all platoon personnel, is provided daily or as required. The digital units send and receive reports and orders using frequency-modulated (FM) or digital means. The time required to perform this task is increased when conducting it in mission-oriented protective posture (MOPP) 4.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ol style="list-style-type: none"> 1. Element members take immediate action. <ol style="list-style-type: none"> a. Performed first aid on wounded soldiers. b. Requested medical aid, as needed. * 2. Element leaders report the personnel status of the squad. <ol style="list-style-type: none"> a. Accounted for all assigned or attached personnel. b. Prepared Department of the Army (DA) Form 1156 for killed or wounded soldiers (the body is under United States [US] control). c. Prepared DA Form 1155 for captured or missing soldiers (the body is not under US control). d. Forwarded reports and completed forms to the company command post (CP). * 3. The element leader or platoon sergeant processes strength information. <ol style="list-style-type: none"> a. Recorded the situation report (SITREP) and other personnel information. b. Directed cross leveling to fill critical position openings caused by casualties. c. Consolidated squad personnel reports. d. Collected casualty feeder reports and witness statements (DA Forms 1155 and 1156). e. Updated the battle roster and the strength-accountability system of the platoon. f. Determined critical replacement requirements. g. Prepared the strength report. * 4. The element leader or platoon sergeant processes replacements. <ol style="list-style-type: none"> a. Briefed replacements on the mission, tactical situation, platoon policies and procedures, specific duties, and site or platoon orientation. b. Entered the names of soldiers onto the platoon accountability system or battle roster. c. Inspected soldiers for combat critical clothing and equipment. d. Arranged for the issue of missing required items of combat critical clothing and equipment. e. Implemented the buddy system. f. Arranged for the movement of soldiers to assignments. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
* 5. The element leader or platoon sergeant reports the personnel status. a. Forwarded completed DA Forms 1155 and 1156. b. Transmitted the strength report and other requested personnel information.		

TASK PERFORMANCE/EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS: NONE

SUPPORTING COLLECTIVE TASKS: NONE

OPFOR TASKS AND STANDARDS: NONE

CHAPTER 6

External Evaluation

6-1. General. An external evaluation is used to assess the ability of the unit to perform its mission. Units may modify this evaluation based on the METT-TC and other considerations as deemed appropriate by the commander. Selected T&EOs from Chapter 5 that involve the total unit and employ a realistic OPFOR and the MILES are used for the evaluation. At the completion of the evaluation, the commander can identify the unit strengths and weaknesses. These strengths and weaknesses are the basis for future training and resource allocations.

Table 6-1. Sample Evaluation Scenario

Event	Action	Proposed Time Frame	Estimated Time Allotted
1	Conduct Preevaluation Operations	Before start time	
2	Conduct Troop-Leading Procedures		
3	Issue a Road March Order	Day 1 - 0200 hours	2 hours
4	Conduct a Tactical Road March	0400 hours	5 hours
5	Occupy an AA	0900 hours	3 hours
Module 1			
6	Receive a WO	1200 hours	2 hours
7	Support Combat Operations (Mobility)		
8	Conduct Unit Support Operations		
9	Perform Unit Maintenance Operations		
10	Conduct Administrative Operations		
11	Conduct Intelligence Operations		
Module 2			
12	Conduct Unit Support Operations	Day 2 - 1400 hours	
13	Receive a WO		
14	Support Combat Operations (Counter mobility)		
15	Perform Unit Maintenance Operations		
16	Move to an AAR Site and Conduct an AAR		
17	ENDEX		

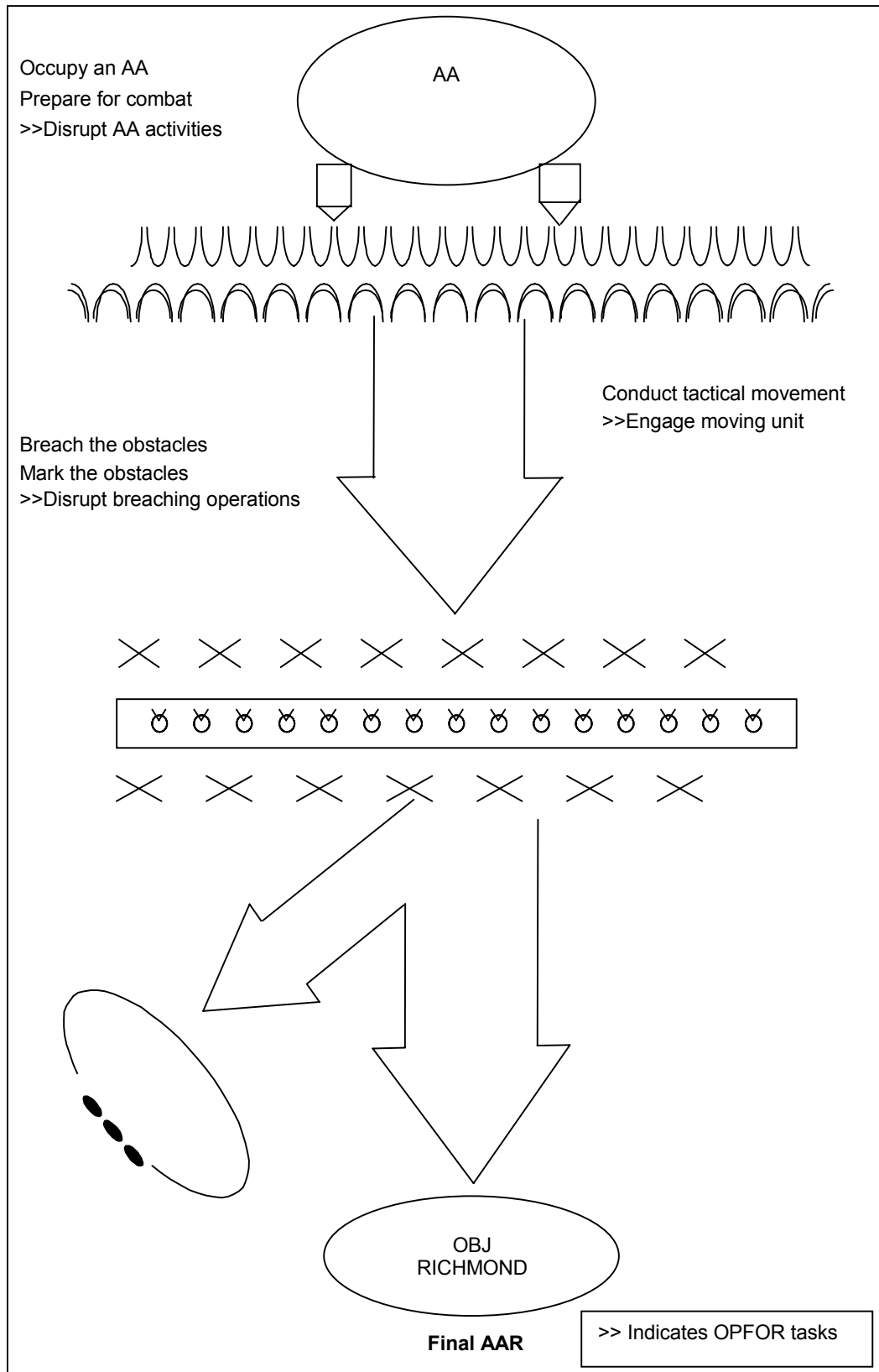


Figure 6-1. General Scenario Illustration

6-2. Preparing the Evaluation. The commander must standardize evaluation procedures to accurately measure unit capabilities. Table 6-1 is a sample evaluation scenario that contains the mission and the appropriate tasks necessary to develop the scenario and execute the evaluation. Figure 6-1 is a graphic representation of the scenario. Selective tailoring is required because it is not possible to evaluate every task. Procedures for developing the evaluation are discussed below.

- a. Identify the missions to be evaluated for each echelon from Figure 2-2. Record the selected missions on DA Form 7506.
- b. List each mission on a separate DA Form 7502.
- c. Select the tasks for the evaluation of every mission. List the selected tasks on the task summary sheet, which is used for recording the results of the evaluation.
- d. Compile the selected missions and tasks in the order that they logically occur in the detailed scenario (Table 6-1). Group the selected missions and tasks in parts for continuous operations. The parts can be interrupted at logical points to assess the MILES casualties and to conduct in-process AARs.

6-3. Resourcing and Planning. Adequate training ammunition, equipment, and supplies must be forecasted and requisitioned. Table 6-2 is a consolidated list of the support requirements for this evaluation. It is based on experience with the scenario in Table 6-1. The evaluating HQ must prepare its own consolidated support requirements.

Table 6-2. Sample Consolidated Support Requirements

CONSOLIDATED SUPPORT REQUIREMENTS FOR STX 5-2-E0001		
Ammunition	DODIC	Estimated Basic Load
5.56 mm	A080	150 rounds per rifle
7.62 mm	A111	400 rounds per M60
5.56 mm	A075	250 rounds per SAW
Caliber .50	A598	250 rounds per M2
ATWESS (AT-4)	L367	15 each per company (inert)
Hand grenade, body, M69	G811	2 per man
Hand grenade, fuse (practice)	G878	2 per man
Simulators, projectile, ground burst	L598	50 per exercise
Simulator, hand grenade, M116 series	L601	20 per squad (without live demolitions to simulate demolition) or 6 per squad
Demolitions (See note below.)		
MICLIC		4 per company with 2 reloads
Bangalore torpedo kit		1 per squad
Charge, block TNT		50 per squad
MDI M11, 12, 13, 14		15 each (total 60) per platoon
MDI igniters		60 per platoon
Time fuse		500 feet per platoon
Satchel charge, M183		30 per platoon
40-pound shape charge		12 per platoon
Smoke grenades, white		60 per platoon
Smoke pot, ground		10 per platoon
Mines		
Other Items		
Batteries, BA 200 (6-volt)		50 each
Batteries, BA 3090 (9-volt)		400 each
Class IV		
Concertina wire		
Pickets		
Staples		

Barbed wire			
MILES Equipment	Company	Evaluators	OPFOR
APC	13		13/4
Caliber .50 system	15		13/4
M240 system	2		
M19 blank firing adapter	15		13/4
M16 system	120		120/28
M60 machine gun system	13		13/2
Controller guns		8	
Small arms alignment fixture		2	
NOTE: Ammunition and demolitions are basic loads and should be restocked (according to use) during the exercise.			

6-4. Selecting and Training Observers/Controllers. A successful evaluation depends heavily on selecting O/Cs with the proper experience, training them to fulfill their responsibilities, and supervising them throughout the evaluation.

a. The following are minimum rank and experience requirements for O/Cs:

- The company O/C will be an officer with company command experience.
- Platoon or section O/Cs will be a lieutenant or an NCO with platoon or section experience.
- The recorder will be an officer or an NCO at the evaluation control HQ who receives "kill" information or results and time data from the O/Cs.

b. The O/Cs must have a thorough knowledge of the unit mission, organization, equipment, and doctrine. They must understand the overall operation of the unit and how it is integrated into and supports the force protection operations. Team members must have a working knowledge of the common individual and collective tasks in areas such as local-defense convoy procedures, communications, and NBC operations. One member of the team must have detailed expertise in NBC and local-defense common task areas. The O/Cs should be equal in grade to the soldier in charge of the element they are evaluating and should have previous experience in the position being evaluated. All team members must be able to make objective evaluations, function effectively as a team member, and state their findings in reports and briefings.

c. O/C training focuses on providing O/Cs with a general understanding of the overall evaluation, providing each O/C with a detailed understanding of specific duties and responsibilities and on building a spirit of teamwork. The O/C training includes—

- (1) The overall evaluation design, general scenario, master events list, and specific evaluation purposes and objectives.
- (2) The unit METL and its linkage to the T&EOs and other materials contained in this MTP.
- (3) The O/C team composition and general duties and responsibilities of each team member.
- (4) The detailed responsibilities of individual team members with special emphasis on the master events list items that are their responsibility. These include—
 - A review of written instructions and materials contained in the O/Cs folders.
 - A detailed reconnaissance of the area used for the evaluation.

- The O/C communications and command and control (C2) systems.
- Safety procedures.
- Evaluation data collection OPLAN and procedures.
- AAR procedures and techniques.

(5) A talk-through of the entire evaluation. This includes war-gaming all items of the master events list in order of occurrence and reviewing each team member's responsibilities and anticipated problems.

d. The senior O/C supervises the operation of the team. He provides the team leadership, focuses his efforts on ensuring that the O/Cs fulfill their responsibilities and adhere to the evaluation plan, resolves problems, synchronizes the efforts of the team members, ensures close coordination among team members, holds periodic team coordination meetings, plans and orchestrates the unit AAR, and conducts specific evaluation team AARs.

6-5. Selecting and Training Opposing Forces. The OPFOR support for an external evaluation of the unit is limited to two squads of dismounted infantry and two to five individuals who serve as enemy agents. Although OPFOR support is only used for some tasks, proper training and employment of this force is important to ensure a proper assessment of the unit capabilities.

a. The OPFOR commander should be a company grade officer or senior NCO who is well trained in OPFOR tactics and operations. In addition to the duties and responsibilities in leading various OPFOR elements, the OPFOR commander serves as a part-time member of the O/C team. In order to fulfill O/C responsibilities, the OPFOR commander must participate in O/C planning and training activities and must be present during AARs.

b. OPFOR elements are trained, organized, and equipped to operate in a manner that depicts threat forces as realistically as possible. The training includes—

- Threat tactics and rules of engagement.
- OPFOR missions and responsibilities.
- OPFOR tasks and standards.
- Threat weapons and equipment, if available.
- C2.
- Safety.

6-6. Conducting the Evaluation. The senior O/C has overall responsibility for conducting the evaluation. He orchestrates the overall evaluation and the support provided by the various individuals and elements that are specially selected and trained to fulfill designated functions and responsibilities. O/Cs must be free to observe, report, and record the actions of the unit.

a. The HQ two echelons above the unit being evaluated should select and train the control element for the evaluation. They issue orders, receive reports, provide feeder information, and control the OPFOR.

b. All exercise participants and supporting personnel must ensure that every facet of the evaluation is conducted in a safe manner. Personnel observing unsafe conditions must take prompt action to halt them and advise their superiors of the situation.

6-7. Recording External Evaluation Information. The senior O/C is responsible for implementing the evaluation scoring system. Although the final evaluation is developed by the senior O/C, the full team participates in this process. Their reports reflect the overall ability of the combat engineer unit to accomplish its wartime missions.

a. The evaluation scoring system is based on an evaluation of the unit performance of each mission-essential task and any other collective task contained in the overall evaluation plan. Use the following four steps for the evaluation:

Step 1. Identify the MTP T&EOs that correspond to each of the evaluation-plan tasks.

Step 2. Use T&EO standards to evaluate the unit performances of the tasks. Do this for each evaluation-plan task.

Step 3. Record on the T&EO a GO for each performance measure performed to standard and a NO-GO for each performance measure not performed to standard.

Step 4. Record the overall unit capability to perform the task by using the GO/NO-GO information recorded on each T&EO. Use the following definitions as guidance in making this determination:

- **GO.** The unit successfully accomplished the task or performance measure to standard.
- **NO-GO.** The unit did not accomplish the task or performance measure to standard.

b. Use DA Forms 7503, 7504, and 7505 to collect the evaluation information. These reports assist the team in recording the information concerning the unit capability to perform its wartime mission according to the established standards. This information will assist the senior O/C to determine the final overall unit rating.

(1) DA Form 7503 is used to record information concerning weather and terrain conditions present during the evaluation period.

(2) DA Form 7504 is used to record information concerning the element personnel and equipment losses during OPFOR engagements.

(3) DA Form 7505 is used to record personnel and equipment status.

6-8. Preparing After-Action Reviews. AARs provide direct feedback to unit members by involving them in the diagnosis process and by enabling them to discover for themselves what happened during the evaluation. In this way, participants identify errors and seek solutions that increase the value of the training and reinforce learning.

a. The senior O/C is responsible for the AAR process. He coordinates the entire AAR program from the initial planning of the evaluation through the after-action phases.

b. Key steps in the AAR process are—

(1) **Planning.** Planning for AARs is initiated in the exercise preparation activities long before the start of the action evaluation. AARs are integrated into the general scenario at logical break points and into the detailed evaluation scenario that is developed subsequently. Qualified O/Cs are selected and

trained in the AAR process as part of O/C training. This phase also includes the identification of potential AAR sites and the requisition of equipment and supplies needed to conduct the AAR.

(2) Preparation. AAR preparation starts with the beginning of the actual evaluation. In addition to observing the unit performing its critical tasks, this phase includes the review of the training objectives, orders, and doctrine. Final AAR site selection is completed and times and attendance are established. AAR information is gathered from applicable O/Cs and unit personnel. The AAR is organized and rehearsed.

(3) Conduct. AARs are conducted at logical breakpoints in the exercise and at the end of the evaluation. When AAR participants have assembled, the AAR begins with the senior O/C introducing the session with a statement of the AAR purpose, the establishment of the AAR ground rules and procedures, and a restatement of the training and evaluation objectives. A successful AAR follows these guidelines:

- (a) AARs are not critiques but professional discussions of training events.
- (b) The senior O/C guides the discussion in a manner to ensure that participants openly discuss the lessons.
- (c) Dialogue is encouraged among O/Cs and unit personnel.
- (d) All individuals who participated in the evaluation should be present for the AAR. As a minimum, every unit or element that participates in the exercise is represented.
- (e) Participants discuss not only what happened, but also why it happened and how it could have been done better.
- (f) Participants review the sequence of events associated with hazards and the risk assessment made before the exercise. As a minimum, the review should address hazards that presented themselves (but were not identified) and each incident of fratricide or near fratricide and how it could be avoided in the future.
- (g) Events not directly related to major events are not examined.
- (h) Participants do not offer self-serving excuses for inappropriate actions.
- (i) The AAR end result is that soldiers and leaders, through discovery learning, gain a better understanding of their individual and collective strengths and weaknesses and become more proficient in training for and performing their critical tasks.

NOTE: Reference materials for conducting an AAR are Training Circulars (TCs) 25-6 and 25-20 and FM 25-101.

APPENDIX A - EXERCISE OPERATION ORDER

For use of the OPORD, refer to the exercise outlined in Chapter 4 and to Figure A-1.

OPERATION ORDER <small>(classification)</small> FOR TRAINING PURPOSES ONLY	
Operation Order _____ 20____	Copy ____ of ____ copies
Task Organization:	
1. SITUATION.	
<p>a. Enemy Forces. Contact with the enemy has been broken. The enemy has withdrawn deep to the rear. It is being reinforced and is preparing to counterattack within 24 hours. The enemy is expected to use nonpersistent nerve agents. Enemy air is expected to be active in the area. The latest intelligence summary (INTSUM) indicates that the enemy may have a company-size strong point in the brigade sector. Enemy units occupying the combat outpost are half strength. Counterattacking forces are expected to be full strength.</p>	
<p>b. Friendly Forces. 5th Division attacks to secure Objective Richmond and then assists passage of the exploitation force (24th Division). This operation will rapidly penetrate the main defensive belt to draw the 10th Independent Tank Regiment (ITR) south and fix it in a zone.</p>	
<p>(1) Missions of units on left and right flanks, as required.</p>	
<p>(2) Supporting engineer unit missions, as required.</p>	
<p>(3) Supporting fires. 4th Battalion is in direct support.</p>	
2. MISSION. The 25th Brigade conducts a passage of lines and attacks to secure Objective Richmond. On order, the 25th Brigade continues movement forward of Phase Line (PL) Green.	
3. EXECUTION.	
<p>a. Concept of the Operation. See the overlay developed by the trainer.</p>	
<p>(1) Maneuver. The 25th Brigade departs AA NK 243567 and conducts a passage of lines through the elements of 3rd Division. It conducts a penetration with two task forces (TFs), with one TF following as the brigade reserve. TF A will be the main effort and attack along Axis Oak. TF B attacks along Axis Pine and is the supporting attack. On order, TF C (trailing along Axis Oak) becomes the main effort and continues the attack to Objective Richmond. The intent is to gain contact with the enemy and locate and fix the main body of the enemy so that the division can conduct envelopments to destroy it. It is necessary to destroy enemy combat outposts. We must quickly reorganize and continue movement until we find the main body. The TF that makes initial contact will attempt to fight through and destroy the enemy. If they cannot, they will provide a base of fire for maneuver by the remainder of the brigade. Movement will continue to PL Green if no contact is gained, and past PL Green, on order.</p>	
<p>(2) Fire support. The priority of fires is to TF A initially and to the TF in contact once contact is made.</p>	

Figure A-1. Sample OPORD

(3) Mines, obstacles, and fortifications. Critical check points and identified obstacles shown on the obstacles overlay.

b. Subunit missions, as required.

c. Engineer. The priority of support is to the two lead TFs. On order, conduct breaching operations in support of the TF in contact. Be prepared to support a hasty defense on order.

d. Coordinating instructions.

(1) Report all enemy contact.

(2) Report all enemy obstacles.

(3) Report the crossing of PLs.

(4) Additional information, as required.

4. SERVICE AND SUPPORT. Per the division SOP.

5. COMMAND AND SIGNAL.

a. Command.

b. Signal.

(1) Current signal operation instructions (SOI).

(2) Radio-listening silence until initial contact with the enemy.

Figure A-1. Sample OPORD (continued)

APPENDIX B - THREAT ANALYSIS

B-1. Introduction.

a. Dramatic changes in Europe and within the former Soviet Union have reduced the likelihood of an east-west military confrontation in Europe. The threat in Europe has not gone away completely, but it is less immediate and has changed in nature. Despite reductions, Russia will still have the largest army in Europe. Regardless of the stated peaceful intentions of current Russian political leaders, the Russian Armed Forces still possesses formidable capabilities, and those capabilities will remain, should conditions and intentions change. Other former Soviet republics are forming their own armed forces and could pose threats to each other or to other countries in the region. In this time of turmoil and uncertainty, the former Soviet military power remains a potentially dangerous challenge to US and North Atlantic Treaty Organization (NATO) security. However, this remnant of the former Soviet threat is just one of many.

b. Many other nations are obtaining or developing sophisticated weaponry. Various regional conflicts could cause the US to intervene bilaterally or as part of a multinational coalition to protect our interests or those of our allies. Other potential conflict areas could call for a variety of responses by either the US, the former Soviet republics, or both. The threat may come in an organized military form, which may or may not follow the former Soviet model. It may also come in the form of insurgencies, terrorism, or narcotics trafficking. The US Army needs to be prepared to respond to this broad spectrum of potential threats that it could encounter in various contingencies.

B-2. Global Threats. Modern weapons and the capability to project military power to great distances beyond its own national borders would characterize a global-type threat, such as the former Soviet one. Against such a potential adversary, the threat to rear operations would include the following:

- Armored or mechanized forces breaking into the rear area.
- Airborne, airmobile, or amphibious assault forces inserted into the rear area.
- Long-range artillery, surface-to-surface missiles, or air strikes targeting rear-area assets.
- NBC weapons.
- Radio-electronic combat aimed at jamming or destroying our communications means and disrupting our C2.
- Agents and saboteurs.

B-3. Regional Threats. Regional threats, such as Iraq or North Korea, have less capability to project power. However, they may have some of the same weapons and organizations as a global threat. In fact, lessening superpower tensions are contributing significantly to the proliferation of sophisticated weaponry to emerging nations. This applies not only to conventional ground and air weapons, but also to chemical and nuclear weapons and missile systems. A mature regional power, possibly with a global power as a major source of its military hardware, emphasizes the ability to project its forces throughout a given region.

B-4. Local Threats. Local threats have even more localized objectives and little capability to project power beyond their own borders or their immediate neighbors. They generally have less modern equipment than global or regional threat powers or at least a limited variety of modern weapons. Their equipment may include modern small arms and light artillery (such as mortars, howitzers, and rocket launchers), but often does not include sophisticated weapons such as long-range conventional artillery or high-performance aircraft. A local threat may be heavily supported by a regional threat or even by a global power. For example, in the past, Cuba assisted Soviet-backed movements in Angola, Nicaragua, and Ethiopia. This outside influence will often be reflected in the equipment, organization, or tactics of the local threat forces. However, the actions of a local threat are often limited to insurgencies, civil wars, or

border disputes. Insurgents, especially those with outside help, may be able to purchase modern weapons, but may not have developed a logistics base able to sustain continuous conflict. Therefore, they often concentrate on guerrilla tactics, sabotage, assassinations, booby traps, or explosives to achieve their objectives.

B-5. Special Situations.

a. The threat in special situations includes terrorism. Terrorism may satisfy the objectives of different types of threats discussed above. Terrorists are the least likely threat to use conventional forces and thus are the hardest to anticipate or to train against. Terrorist tactics include the following:

- Assassinating or maiming.
- Arson.
- Bombing.
- Hijacking, kidnapping, or hostage taking.
- Raids and seizure of facilities.
- Sabotage.
- Hoaxes (such as bomb threats).

Terrorists may also be able to obtain weapons of mass destruction. A political leadership that supports terrorism, as in Iraq, may control such NBC weapons. If nuclear weapons are too difficult to obtain, terrorists may instead employ chemical or biological weapons.

b. Narcotics trafficking is another special-condition threat. It may be supported or tolerated by a global power for political or economic reasons. It may also be tied in with regional or local threat powers or with terrorism. There is often a marriage of convenience between insurgent groups and the drug cartels. The cartels can spend significant amounts of money on the latest in technology for communications and security to protect their operations. They can also buy weapons and otherwise finance regional insurgencies and cross-border conflicts.

B-6. Bottom Line. The threat to rear operations includes all of the above categories. These threat categories are not mutually exclusive and may overlap with one another.

APPENDIX C - METRIC CONVERSION CHART**Table C-1. Metric Conversion Chart**

US Units	Multiplied By	Equals Metric Units
Length		
Feet	0.30480	Meters
Inches	2.54000	Centimeters
Inches	0.02540	Meters
Inches	25.40010	Millimeters
Miles (statute)	1.60930	Kilometers
Miles per hour	0.04470	Meters per second
Yards	0.91400	Meters
Volume		
Cubic feet	0.02830	Cubic meters
Cubic yards	0.76460	Cubic meters
Weight		
Pounds	453.59000	Grams
Pounds	0.45359	Kilograms
Metric Units	Multiplied By	Equals US Units
Length		
Centimeters	0.39370	Inches
Meters per second	2.23700	Miles per hour
Millimeters	0.03937	Inches
Kilometers	0.62137	Miles (statute)
Meters	3.28080	Feet
Meters	39.37000	Inches
Meters	1.09360	Yards
Volume		
Cubic meters	35.31440	Cubic feet
Cubic meters	1.30790	Cubic yards
Weight		
Kilograms	2.20460	Pounds

GLOSSARY**1LT**

first lieutenant

2LT

second lieutenant

5 Ss and T

search, silence, segregate, speed, safeguard, and tag

AA

avenue of approach; assembly area; antiaircraft; anchor assembly

AAR

after-action review; after-action report

ABCS

Army Battle Command System

AC

active component; alternating current

ADE

assistant division engineer

AEI

Architectural Engineering Instructions; aerospace education instructor

AOAP

Army Oil Analysis Program

APC

armored personnel carrier

APD

American Petroleum Institute

API

American Petroleum Institute

AR

Army regulation; armor; angle of repose

ARTEP

Army Training and Evaluation Program

ASI

additional skill identifier

ASL

authorized stockage list

ASME

American Society of Mechanical Engineers

ASTM

American Society of Testing Methods; American Society for Testing and Materials

ATTN

attention

ATWESS

antitank weapon effects signature simulator; Antitank Weapon Effects Simulator System

AWS

air weather service; American Welding Society

BA

biannually

BDAR

battle damage assessment and repair

BF

battle fatigue; board feet

BMO

battalion maintenance officer

bn

battalion

BOM

bill of materials

BOS

battlefield operating system

BSL

bench stock list

C2

command and control

CAS

casualty; close air support

CATS

combined arms training strategy

CB1

main circuit breaker

CDM

chemical downwind message

CHS

combat health support

COA

course of action

COMSEC

communications security

CONUS

continental United States

CP

command post; checkpoint

CPM

critical-path method

CSS

combat service support

DA

Department of the Army; Denmark; direct action

DA Form

Department of the Army Form

DD

Department of Defense

DOD

Department of Defense

DODIC

Department of Defense identification code

EEFI

essential elements of friendly information

EMO

electronic media only

EN

engineer (unit designations; graphics)

ENDEX

end of exercise

EPW

enemy prisoner of war

EW

electronic warfare

FBCB2

Force XXI Battle Command Brigade and Below

FM

field manual; frequency-modulated; frequency modulation

FO

forward observer

FRAGO

fragmentary order

FS

fire support; foresight; Fort Sill

FST

field sanitation team; fire support team

FTX

field training exercise

GRREG

graves registration

HQ

headquarters

IEEE

Institute of Electrical and Electronics Engineers

INTSUM

intelligence summary

ITR

independent tank regiment

KIA

killed in action

KVA

kilovolt-ampere

LCE

load-carrying equipment

LNO

liaison officer

LZ

landing zone

MACOM

major Army command

MANSCEN

Maneuver Support Center

MCS

Maneuver Control System

MCSR

materiel condition status report

MDI

modernized demolition initiator

METL

mission-essential task list

METT-TC

mission, enemy, terrain, troops, time available, and civilian considerations

MICLIC

mine clearing line charge

MILES

Multiple Integrated Laser Engagement System

mm

millimeter(s)

MO

Missouri; monthly

MOPP

mission-oriented protective posture

MOPP2

mission-oriented protective posture Level 2 (mask carried/worn, protective suit and boots worn, and gloves carried)

MOPP4

mission-oriented protective posture Level 4 (mask, protective suit, boots, and gloves worn)

MORTREP

mortar bombing report

MOS

military occupational specialty; minimum operating strip

MP

military police

MTF

medical-treatment facility

MTP

mission training plan; MOS training plan

NATO

North Atlantic Treaty Organization

NBC

nuclear, biological, and chemical

NBC 1 Report

Observer's Initial Report. This report is used by the observing unit to give basic, initial, and follow-up data about an NBC attack. This report is sent by platoons and companies to the battalion headquarters or by designated observers to the division NBC Center (NBCC).

NBC 4 Report

Monitoring and Survey Report. This report is used to report NBC hazards detected by a unit through monitoring, survey, or reconnaissance. This report is prepared and submitted by company-level organizations.

NBC 5 Report

Actual Contaminated Areas Report. Once the NBC reports are posted on the situation map, the division prepares an NBC 5 report showing the contaminated area. The preferred method of dissemination is by overlay.

NCO

noncommissioned officer

NCOIC

noncommissioned officer in charge

NCS

net control station

NETA

National Electrical Testing Association

NVD

night vision device

O/C

observer/controller

OBJ

objective

OEG

operation exposure guide; operational-exposure guidance

OP

observation post; operational procedure

OPFOR

opposing forces

OPLAN

operation plan

OPORD

operation order

OPSEC

operations security

P

needs practice; pass; passed; barometric pressure; mean radius of curvature

pam	pamphlet
PDDE	power-driven decontamination equipment
PDP	power distribution panel
PIR	priority intelligence requirements
PL	phase line; plastic limit; Poland
PLL	prescribed load list
PMCS	preventive-maintenance checks and services
POL	petroleum, oils, and lubricants
POS/NAV	position/navigation
PRIMES	power rapidly in-place modular equipment system
PSR	personnel status report
PVNTMED	preventive medicine
radiac	radiation, detection, indication, and computation
RATELO	radiotelephone operator
RC	rapid cure; reserve component
RES	radiation exposure status
ROE	rules of engagement
ROI	rules of interaction
RP	Republic of Philippines; release point; rally point; reference point; red phosphorus

RTD

return to duty

S2

Intelligence Officer (US Army)

S3

Operations and Training Officer (US Army)

SA

semiannually; situational awareness

SAE

Society of Automotive Engineers

SATS

Standard Army Training System

SAW

squad automatic weapon

SCATMINE

scatterable mine

SCPE

simplified collective-protection equipment

SDC

system distribution cable

SFC

special forces command; sergeant first class

SGT

sergeant

SHELREP

shelling report

SHTU

simplified handheld terminal unit

SITREP

situation report

SOFA

Status of Forces Agreement

SOI

signal operation instructions

SOP

standing operating procedure

SP

start point; strongpoint; self-propelled; Spain

SSG

staff sergeant

SSI

standing signal instructions; signal supplemental instructions

SSL

shop stock list

ST

SEAL team; special text

STB

supertropical bleach

STP

soldier training publication

STRAC

Standards in Training Commission

STX

situational training exercise

T

trained; slab thickness; deck thickness; crown thickness; geodetic azimuth; grid azimuth; slope distance; telescope above station; time; tracked

T&EO

training and evaluation outline

TACSOP

tactical standing operating procedure

TAMMS

The Army Maintenance Management System

TB

technical bulletin

TC

technical coordinator; training circular; track commander; tank commander

TEWT

tactical exercise without troops

TF

task force; total float

TM

team; technical manual; trademark

TMDE

test, measurement, and diagnostic equipment

TNT

trinitrotoluene

TOC

tactical operations center

TOE

table(s) of organization and equipment

TRADOC

United States Army Training and Doctrine Command

U

unclassified; up; untrained; unlocked

UAV

unmanned aerial vehicle

UPW

unit proficiency work sheet

US

United States

USA

United States of America; United States Army

USAREUR

United States Army, Europe

UXO

unexploded ordnance

WCS

weapon control status; weapon control station

WESTCOM

United States Army, Western Command

WIA

wounded in action

WO

warrant officer; warning order

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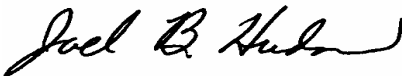
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